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May 3, 2012

Resending

Via UPS Overnight Delivery

Michelle Kerr, Remedial Project Manager
U.S. Environmental Protection Agency – Region 5
Superfund Division (SR-6J)
77 W. Jackson Blvd.
Chicago, IL 60604-3590

**RE: General Notice and Information Request for the Chemetco Superfund
Site in Hartford, Illinois Dated November 30, 2011 – J. Trockman &
Sons, Inc.**

Dear Ms. Kerr:

On behalf of our client, J. Trockman & Sons, Inc. ("Trockman"), enclosed for the U.S. Environmental Protection Agency's ("EPA") records is Trockman's responses to the above EPA Request for Information. This correspondence is being provided consistent with the May 4, 2012 extension granted by the EPA to identified potential responsible parties for this matter by the EPA's February 24, 2012 e-mail. Also enclosed is supporting documentation relevant to the responses prepared by Trockman.

Please direct any future correspondence regarding this matter to my attention at the following address:

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medwards@kddk.com

Michelle Kerr, Remedial Project Manager
U.S. Environmental Protection Agency – Region 5
May 3, 2012
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Upon your review of this correspondence, please call or write if you should have any questions.

Cordially,

KAHN, DEES, DONOVAN & KAHN, LLP



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cc: J. Trockman & Sons, Inc.

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Michael G. Smith

J. TROCKMAN & SONS, INC'S RESPONSE TO EPA'S CERCLA § 104(e)(2)
INFORMATION REQUEST REGARDING CHEMETCO FACILITY
IN MADISON COUNTY, ILLINOIS

J. Trockman & Sons, Inc. ("Trockman"), by counsel, hereby provides the following response to the EPA's Information Request made pursuant to Section 104(e)(2) of the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA") regarding the Chemetco facility located in Hartford, Madison County, Illinois (the "Site"):

I. OBJECTIONS AND RESERVATIONS APPLICABLE TO ALL REQUESTS

Trockman hereby asserts the following objections and reservations regarding EPA's Information Request. All of Trockman's responses set forth herein are made expressly subject to these objections, without waiver.

A. Attorney-Client Privilege.

Trockman objects to EPA's Information Request on the basis of the attorney-client privilege to the extent that any specific Request, Definition or Instruction, in whole or in part, seeks production of documents, information or other materials that constitute; contain, reflect or otherwise reveal confidential communications between Trockman and its attorneys, or that are otherwise protected by the attorney-client privilege.

B. Work Product Protection.

Trockman objects to EPA's Information Request on the basis of the work-product protection to the extent that any specific Request, Definition or Instruction, in whole or in part, seeks production of documents, information or other materials that fall within the work product protection, including, but not limited to, those which were created or assembled by or for Trockman in anticipation of litigation or for trial, or that constitute, contain, reflect or otherwise reveal the mental impressions, conclusions, opinions, or legal theories of any attorney for Trockman, or that otherwise constitute work product or attorney work product. This objection includes documents, information or other materials concerning the selection and/or compilation of documents, evidence or materials or information that in the opinion of Trockman or its counsel "support," "show" or "relate to" certain allegations, defenses or contentions regarding the subject matter of the Information Request.

C. Temporal Scope of Requests.

Trockman objects to EPA's Information Request to the extent any specific Request, Definition or Instruction, in whole or in part, seeks to impose any obligations on Trockman to produce documents or information relating to times outside the scope of the relevant activity at the Site or outside the time period of Trockman's business operations.

D. Obligations Beyond Applicable Law and Burdensomeness of Requests.

Trockman objects to EPA's Information Request to the extent any specific Request, Definition or Instruction, in whole or in part, seeks to impose any obligations on Trockman that are different from or in addition to the requirements of §104(e) of CERCLA and to the extent that the Instructions and Requests are overly broad, unduly burdensome, insufficiently specific and/or not reasonably relevant to the scope of EPA's investigation related to the Site.

E. Documents not Within Trockman's Possession, Custody or Control.

Trockman objects to EPA's Information Request to the extent any specific Request, Definition or Instruction seeks production of documents or other materials and/or information that are not within the Trockman's present possession, custody or control. This objection includes any attempt by EPA to impose a burden on Trockman to produce documents other than its own through the use of overly broad or expansive Definitions and Instructions. Trockman also objects to any request for production of "original" documents, but will produce true and accurate copies of responsive documents that are not otherwise privileged or protected from discovery.

F. Trade Secret and Other Confidential, Proprietary Information.

Trockman objects to the extent that EPA's Information Request, or any specific Request, Definition or Instruction, in whole or part, seek production of any trade secret or other confidential, commercial or proprietary information about Trockman's business operations, except to the extent that such information is adequately protected from public disclosure or use for any purpose other than that allowed pursuant to § 104(e) of CERCLA.

G. Ongoing Investigation.

Trockman's investigation of information in response to EPA's Information Request is incomplete and ongoing, and Trockman reserves the right to modify, supplement or amend any response or objection to the contained herein based upon subsequent discovery or investigation.

H. Superfund Recycling Equity Act Defense

As more fully set forth in its responses to EPA's Information Request, Trockman is exempt from liability under CERCLA for its scrap metal recycling activities involving the Site pursuant to the Superfund Recycling Equity Act ("SREA"), § 127 of CERCLA, 42 U.S.C. § 9627. At no time did Trockman arrange for the disposal of any hazardous materials at the Site. All transactions between Trockman and Chemetco involved the sale of useful products and valuable recyclable materials, including but not limited to scrap metal, for use in manufacturing new products.

I. Reservation of Other Objections and Conditions of Response.

In providing these responses to EPA's Information Request, Trockman does not waive or intend to waive any of the following:

- (1) Objections as to competency, relevancy, materiality or admissibility;
- (2) Objections on any grounds based on the use of any responses herein in any subsequent proceedings, including any litigation regarding the Site or any other actions;
- (3) Objections as to vagueness or ambiguity; and
- (4) Rights to object further to this or any subsequent requests in this matter.

Further, in making any objection to any specific Request, Trockman does not imply or intend to imply that non privileged, responsive information or documents actually exist. Finally, Trockman's identification of information or production of documents in response to any specific Request is not and should not be construed to be an acknowledgment that such information or documents are relevant to the subject matter of or admissible for any purposes in any legal action related to the Site or otherwise.

II. RESPONSES TO SPECIFIC INFORMATION REQUESTS

1. Provide the following information about your company ("Respondent"):
 - (a) The complete and correct legal name of your company.

J. Trockman & Sons, Inc.

- (b) The name(s) and address(es) of the President and the Chairman of the Board, or other presiding officer of the company.

David Trockman, President

J. Trockman & Sons, Inc.

1017 Bayse Street

Evansville, IN 47714

- (c) The state of incorporation of the company and the company's agents for service.

J. Trockman & Sons, Inc. is an Indiana corporation whose agent for service of process is as follows:

David Trockman, Registered Agent

1017 Bayse Street

Evansville, IN 47714

- (d) The name(s) of all subsidiaries, affiliates, or parent companies to your company.

J. Trockman & Sons, Inc. does not have any subsidiaries or parent companies.

D & J Properties, L.L.C. is an affiliate of J. Trockman & Sons, Inc.

- (e) The state of incorporation and agents for service of process in the state of incorporation.

For J. Trockman & Sons, Inc., see response to Request No. 1(c)

D & J Properties is an Indiana limited liability company whose agent for service of process is as follows:

Jeffrey N. Trockman, Registered Agent

1017 Bayse Street

Evansville, IN 47714

- (f) The status of all subsidiaries, affiliates, or parent companies to your company.

J. Trockman & Sons, Inc. does not have any subsidiaries or parent companies.

D & J Properties, L.L.C. is an affiliate of J. Trockman & Sons, Inc., and is an Indiana limited liability company in good standing and authorized to do business in Indiana.

2. Describe and provide any documents related to your company's business activities which resulted in sending material to Chemetco.

Trockman objects to this request on the grounds that it is vague, overbroad, and unduly burdensome insofar as it appears to request information and documents regarding Trockman's business activities beyond those specifically related to transactions with Chemetco. Without waiving said objection, however, Trockman directs the EPA to the invoices, notes, bills of lading, scale tickets, receiving reports, check stubs, account journal entry pages and other documents attached hereto regarding the sale of useful products and valuable recyclable materials, including but not limited to scrap metal, for use as a feedstock for manufacturing of new saleable products or as a replacement or substitute for a virgin raw material.

3. Describe and provide any documents related to your company's role at the Site, including what duties/involvement your company had at the Site.

Trockman objects to this request on the grounds that it is vague with respect to the undefined terms "role" and "duties/involvement" contained in the request. Without waiving said objection, however, Trockman states that it had no direct involvement in any of the operations at the Site, and merely sold useful products and valuable recyclable materials, including but not limited to scrap metal, to Chemetco for use as a feedstock for manufacturing of new saleable products or as a replacement or substitute for a virgin raw material, as further described in the documents provided in Trockman's response to Request No. 2.

4. If the nature or size of Respondent's activities in relation to Chemetco changed over time, describe those changes and the dates they occurred.

Trockman's activities in relation to Chemetco were limited to specific transactions involving the sale of useful products and valuable recyclable materials, including but not limited to scrap metal, to Chemetco for use as a feedstock for manufacturing of new saleable products or as a replacement or substitute for a virgin raw material, as further described in the documents provided in Trockman's response to Request No. 2. Any changes in the number or size of said transactions were dependent upon the amount of recyclable materials available and the price to be paid by Chemetco compared to other prospective buyers of the same recyclable materials.

5. For each type of waste or material used in Respondent's operations, describe and provide documents relating to Respondent's contracts, agreements, or other arrangements for its disposal, treatment, trading, or recycling with Chemetco, including but not limited to whether Respondent controlled where waste sent to Chemetco warehouses was ultimately processed/recycled.

Trockman objects to this request on the grounds that it is vague, overly broad, and unduly burdensome. Without waiving said objection, however, Trockman states that it did not send "waste" to Chemetco and had no direct involvement in any of the operations at the Site, and merely sold useful products and valuable recyclable materials, including but not limited to scrap metal, to Chemetco for use as a feedstock for manufacturing of new saleable products or as a replacement or substitute for a virgin raw material, as further described in the documents provided in Trockman's response to Request No. 2.

6. If not already provided, specify the dates and circumstances when Respondent's waste or material was taken to the Site, and identify the companies or individuals who brought Respondent's waste/material to the Site. Provide any documents which support or memorialize your response.

See the documents provided in response to Request No. 2.

7. Were transactions between your company and Chemetco and specifically the Site: 1) an outright sale; 2) subject to a written or verbal "tolling" agreement between the companies; or 3) reflected the "banking" of the transacted material in a metal account at the request of your company for return or other disposition at a later date?

All transaction between Trockman and Chemetco were the outright sale of useful products and valuable recyclable materials, including but not limited to scrap metal, for use as a feedstock for manufacturing of new saleable products or as a replacement or substitute for a virgin raw material.

8. Did your company have any influence over waste disposal or recycling activities at the Site? If so, how?

Trockman objects to this request on the grounds that it is vague with respect to the undefined term "influence" contained in the request. Without waiving said objection, however, Trockman states that it had no direct involvement in any of the operations at the Site, and merely sold useful products and valuable recyclable materials, including but not limited to scrap metal, to Chemetco for use as a feedstock for manufacturing of new saleable products or as a replacement or substitute for a virgin raw material, as further described in the documents provided in Trockman's response to Request No. 2.

9. Was any shipment of material sent to the Site by Respondent ever refused and/or returned? If so, describe this event in detail, including its cause and outcome.

Trockman does not have any recollection of any instances where Chemetco refused or returned any of the useful products and valuable recyclable materials, including but not limited to scrap metal, sold to Chemetco for use as a feedstock for manufacturing of new saleable products or as a replacement or substitute for a virgin raw material.

10. Describe in detail the types of material that you sent for recycling, processing, or disposal at the Site. In your response, please also give the generic name of each type of materials shipped to the Site [e.g., scrap metal (including scrap automobiles), batteries, electronics, scrap paper, scrap plastic or scrap textile, etc.].

Trockman only sold specification-grade non-ferrous scrap metal to Chemetco including #2 Copper, shredded electric motors and auto radiators, some of which may be more particularly described in the documents provided in Trockman's response to Request No. 2.

- (a) Identify whether the materials were delivered directly to the Site or were trans-shipped there from another intermediate delivery point. If applicable, describe each such delivery point.

For the vast majority of the transactions between Trockman and Chemetco, the recyclable materials were shipped directly to Chemetco's site in Hartford, Illinois. However, on at least two (2) occasions, recyclable materials were shipped to Chemetco's St. Louis Warehouse located in Granite City, Illinois, as more particularly described in the documents provided in Trockman's response to Request No. 2.

- (b) State whether any of the material was ever tested by your company and if so, whether the substances exhibited any of the characteristics of a hazardous waste identified in

35 Illinois Administrative Code 721, Subpart C or 40 C.F.R. § 261, Subpart C.

This request is not applicable to Trockman as the useful products and valuable recyclable materials sold to Chemetco were not intended to be discarded and was not special waste, solid waste, hazardous waste or a hazardous substance. However, Trockman occasionally tested its scrap metal to determine the grade of the material.

- (c) Describe what was done to materials once they were brought to the Site, including any further processing of the materials.

Trockman objects to this request on the grounds that it is vague with respect to the undefined term "done" contained in the request. Without waiving said objection, however, Trockman states that it had no direct involvement in any of the operations at the Site, and merely sold useful products and valuable recyclable materials, including but not limited to scrap metal, to Chemetco for use as a feedstock for manufacturing of new saleable products or as a replacement or substitute for a virgin raw material, as further described in the documents provided in Trockman's response to Request No. 2.

- (d) Provide any additional information and all documents that you believe are related to the type, nature and characteristics of the materials you sent to the Site.

See Trockman's response to Request No. 2 and the attached Scrap Specification Circular from the Institute of Scrap Recycling Industries, Inc. ("ISRI").

- (e) List the years in which your company sent materials to Chemetco and/or its broker(s) for recycling, processing, or disposal.

Trockman's activities in relation to Chemetco were limited to specific transactions involving the sale of useful products and valuable recyclable materials, including but not limited to scrap metal, to Chemetco for use as a feedstock for manufacturing of new saleable products or as a replacement or substitute for a virgin raw material, as further described in the documents provided in Trockman's response to Request No. 2.

Questions and Requests for Documents Related to Scrap Metal

11. For the following questions which relate to transactions involving scrap metals, provide the requested information, and also provide copies of any documents that contain any information that is related to the response:

- (a) Did a market exist for the scrap metal listed in your response to No. 10 above? If so, describe the nature of such a market at the time of the transaction (possible uses, possible consumers, etc.) and the source of the commercial specification grade (e.g., Institute of Scrap Recycling Industries, Inc. (ISRI), Department of Defense, or wherever your company would find the grade published).

Trockman objects to this request insofar as it requests information that is outside of Trockman's possession, custody and control. Without waiving said objection, however, Trockman states that there was a market for the scrap metal sold by Trockman to Chemetco, and that Chemetco was a competitive consumer of scrap metal in said market. Upon information and belief, nonferrous scrap metal is consumed by secondary smelters, refiners, ingot makers, fabricators, foundries and other industrial consumers, who rely on such scrap metal as input to manufacture new products. ISRI publishes commercial specification grades applicable to the scrap metal market, as indicated in the attached Scrap Specification Circular.

- (b) What commercial specification grade did the scrap metal listed in your response to question No. 10 meet? Identify/list the commercial specification grades that each scrap metal identified in No. 9 met.

With respect to Request No. 10, Trockman only sold specification-grade scrap metal to Chemetco, including #2 Copper, shredded electric motors and auto radiators, some of which are more particularly described in the documents provided in Trockman's response to Request No. 2. With respect to Request No. 9, Trockman does not have any recollection of any instances where Chemetco refused or returned any of the scrap metal sold to Chemetco.

- (c) At the time of the transaction(s) what was the intended disposition of the scrap metal listed in your response to question No.10? Did this include burning as fuel, or for energy recovery, or incineration?

Trockman objects to this request insofar as it requests information that is outside of Trockman's possession, custody and control. Without waiving said objection, however, Trockman states that the scrap metal sold to Chemetco was expected to be consumed by secondary smelters, refiners, ingot makers, fabricators, foundries and other industrial consumers, who rely on such scrap metal as a replacement or substitute for a product made, in whole or in part, from virgin raw material. Trockman did not sell scrap metal to Chemetco with the intent that it be discarded or burned for fuel, energy recovery or incineration.

- (d) After sale, transfer, delivery, recycling, or disposal, what portion of the scrap metal listed in your response to question No.10 was to be made available for use as a feedstock for manufacturing of new saleable products? Explain how the portion identified in this answer was derived or calculated.

Trockman objects to this request insofar as it requests information that is outside of Trockman's possession, custody and control. Without waiving said objection, however, Trockman states that all of the scrap metal sold to Chemetco was expected to be made available for use as a feedstock for manufacturing of

new saleable products.

- (e) Could the scrap metal listed in your response to question No. 10 have been used as a replacement or substitute for a virgin raw material? If so, provide details.

Trockman objects to this request insofar as it requests information that is outside of Trockman's possession, custody and control. Without waiving said objection, however, Trockman states that all of the scrap metal sold to Chemetco was intended to be used as a replacement or substitute for a virgin raw material.

- (f) Could any products made from the scrap metal listed in your response to question No. 10 have been used as a replacement or substitute for a product made, in whole or in part, from a virgin raw material? If so, provide details.

Trockman objects to this request insofar as it requests information that is outside of Trockman's possession, custody and control. Without waiving said objection, however, Trockman states that some of the scrap metal sold to Chemetco could have been used as a replacement or substitute for a product made, in whole or in part, from virgin raw material.

- (g) Did your company melt the scrap metal listed in your response to question No. 10 before it was transported/delivered to the Site? If yes, describe the process used for melting the scrap metal.

Trockman did not melt any of the scrap metal sold to Chemetco.

- (h) Describe the source of or the process that produced the materials sent to the Site.

Trockman objects to this request insofar as it requests information that is outside of Trockman's possession, custody and control. Without waiving said objection, however, Trockman states that it purchased nonferrous scrap metal from various persons and entities. Following purchase, Trockman sorted, graded, baled, shredded, if applicable, and weighed the scrap metal for sale.

12. Did any of the scrap material sent to the Site contain other material(s) incident to or adhering to the scrap? If so, describe in detail.

To the best of Trockman's knowledge and belief, none of the scrap metal sold to Chemetco contained other materials.

13. Did any of the material sent to the Site contain wire or wiring? If so, was the wire's insulation first stripped before being shipped to or accepted at the Site, after being received at the Site, or was the wire not stripped?

Trockman objects to this request insofar as it requests information that is outside of

Trockman's possession, custody and control. Without waiving said objection, however, Trockman states that the No. 2 Copper and shredded electric motors sold by Trockman to Chemetco may have contained wire, but they did not contain insulated wire. Because no insulation was present there was no need to strip the wire contained in the No. 2 Copper and shredded electric motors.

14. Did the material shipped include drums or shipping containers? If so, specify the generators of the drums or shipping containers, the capacity of such drums or containers and whether such containers ever contained liquid of any sort. If so, specify the type of liquid and whether such liquids contained wastes of any kind.

The scrap metal sold by Trockman to Chemetco was shipped loose or in gaylord boxes. To the best of Trockman's knowledge and belief, the gaylord boxes in which the scrap metal was shipped did not contain any liquid of any sort.

15. Describe all efforts (i.e., Site visits) taken by your company to determine what would be done with the scrap metal identified in your response to question No.10.

Trockman objects to this request on the grounds that it is vague, overly broad and unduly burdensome. Without waiving said objection, however, Trockman states that it visited Chemetco's Hartford, Illinois site on at least one occasion prior to 1998, and that Chemetco's facility appeared to be a clean, well run, state of the art facility at the time of such visit. Prior to selling scrap metal to Chemetco, Trockman determined that Chemetco offered prices for recyclable materials that were competitive and in line with market prices and it appeared that Chemetco was conducting legitimate recycling operations. During the time that Trockman sold scrap metal to Chemetco, Trockman was not aware of any negative comments about Chemetco or its facilities, and there was no reasonable reason for Trockman to believe that the Site was not in compliance with applicable local, state and federal environmental laws.

Questions and Request for Documents Related to Electrical and Electronic Equipment

16. For the following questions which relate to transactions involving electrical and electronic equipment (e.g., transformers, capacitors, white goods; computers, monitors, cables, circuit boards, or other electrical equipment), provide the requested information, and also provide copies of any documents that contain any information that is related to the response:

- (a) List an estimated number of shipments of electrical and electronic equipment your company sent to the Site on an annual basis and list the years. In this list, include the type and quantity, volume and weight of electrical and electronic equipment sent.

Trockman objects to this request on the grounds that it is vague and overly

broad insofar as the terms "electrical and electronic equipment" are not adequately defined. Without waiving said objection, however, Trockman states that it did not ship any transformers, capacitors, white goods, computers, monitors, cables, circuit boards, or other electrical equipment to the site, but Trockman did sell some shredded electric motors to Chemetco as more particularly described in the documents provided in Trockman's response to Request No. 2.

- (b) At the time of the transaction(s), what was the intended disposition of the electrical and electronic equipment listed in your response to question 15(a)? Did the intended disposition include burning as fuel or for energy recovery or incineration?

Trockman objects to this request on the grounds that it is vague and overly broad insofar as the terms "electrical and electronic equipment" are not adequately defined. Without waiving said objection, however, Trockman states that it did not ship any transformers, capacitors, white goods, computers, monitors, cables, circuit boards, or other electrical equipment to the site, but Trockman did sell some shredded electric motors to Chemetco as more particularly described in the documents provided in Trockman's response to Request No. 2. Trockman did not sell shredded electric motors to Chemetco with the intent that they be discarded or burned for fuel, energy recovery or incineration.

17. With respect to waste or materials sent to the Site, at the time of the transactions, specify the measures you took to determine the actual means of treatment, disposal, recycling, or other uses of the material. Provide information you had and any documents relating to the treatment, recycling and disposal practices of Chemetco at the Site. What assurances, if any, were you given by the owner/operator of the Site regarding the proper handling and ultimate disposition of the materials you sent there, as well as its compliance with applicable environmental laws? Include in your response any correspondence to and from Chemetco relating to this topic and dates the measures were taken or assurances were given.

Trockman objects to this request on the grounds that it is vague, overly broad and unduly burdensome. Without waiving said objection, however, Trockman states that it visited Chemetco's Hartford, Illinois site on at least one occasion prior to 1998, and that Chemetco's facility appeared to be a clean, well run, state of the art facility at the time of such visit. Prior to selling scrap metal to Chemetco, Trockman determined that Chemetco offered prices for recyclable materials that were competitive and in line with market prices and it appeared that Chemetco was conducting legitimate recycling operations. During the time that Trockman sold scrap metal to Chemetco, Trockman was not aware of any negative comments about Chemetco or its facilities, and there was no reasonable reason for Trockman to believe that the Site was not in compliance with applicable local, state and federal environmental laws. In addition, Trockman states that it did not send "waste" to

Chemetco and had no direct involvement in any of the operations at the Site, and merely sold useful products and valuable recyclable materials, including but not limited to scrap metal, to Chemetco for use as a feedstock for manufacturing of new saleable products or as a replacement or substitute for a virgin raw material, as further described in the documents provided in Trockman's response to Request No. 2.

18. What efforts and when, if any, did you take to investigate the nature of the operations conducted at the Site and the environmental compliance of the Site prior to selling, transferring, delivering disposing of, trading, or arranging for the treatment, recycling, or disposal of any materials?

Trockman objects to this request on the grounds that it is vague, overly broad and unduly burdensome. Without waiving said objection, however, Trockman states that it visited Chemetco's Hartford, Illinois site on at least one occasion prior to 1998, and that Chemetco's facility appeared to be a clean, well run, state of the art facility at the time of such visit. Prior to selling scrap metal to Chemetco, Trockman determined that Chemetco offered prices for recyclable materials that were competitive and in line with market prices and it appeared that Chemetco was conducting legitimate recycling operations. During the time that Trockman sold scrap metal to Chemetco, Trockman was not aware of any negative comments about Chemetco or its facilities, and there was no reasonable reason for Trockman to believe that the Site was not in compliance with applicable local, state and federal environmental laws. In addition, Trockman states that it had no direct involvement in any of the operations at the Site, and merely sold useful products and valuable recyclable materials, including but not limited to scrap metal, to Chemetco for use as a feedstock for manufacturing of new saleable products or as a replacement or substitute for a virgin raw material, as further described in the documents provided in Trockman's response to Request No. 2.

19. Provide all information in your possession that shows that you were in compliance with applicable federal environmental regulations or standards regarding the recycling of materials, particularly Section 127 of CERCLA, 42 U.S.C. § 9627, sent to the Chemetco Site.

Trockman objects to this request on the grounds that it is vague, overly broad and unduly burdensome insofar as it appears to request information and documents regarding Trockman's business activities beyond those specifically related to transactions with Chemetco and that it calls for legal conclusion and argument. Without waiving said objections, however, see Trockman's responses to Requests No. 2, 11(a)-(h), 15, 17 & 18.

20. Provide all information in your possession that shows that you were in compliance with

applicable federal environmental regulations or standards regarding scrap metal promulgated under Resource Conservation and Recovery Act (RCRA).

Trockman objects to this request on the grounds that it is vague, overly broad and unduly burdensome insofar as it appears to request information and documents regarding Trockman's business activities beyond those specifically related to transactions with Chemetco and that it calls for legal conclusion and argument. Without waiving said objections, however, see Trockman's responses to Requests No. 2, 11(a)-(h), 15, 17 & 18.

21. Provide all RCRA Identification Numbers issued to Respondent by EPA or a state for Respondent's operations.

Trockman objects to this request on the grounds that it is vague, overly broad and unduly burdensome insofar as it appears to request information and documents regarding Trockman's business activities beyond those specifically related to transactions with Chemetco. Without waiving said objections, however, Trockman states that it has never been issued any RCRA identification numbers for its operations.

22. List all federal and state environmental laws and regulations under which Respondent has reported to federal or state governments, including but not limited to: Toxic Substances Control Act, 15 U.S.C. Sections 2601 *et seq.*, (TSCA); Emergency Planning and Community Right-to-Know Act, 42 U.S.C. Sections 1101 *et seq.*, (EPCRA); and the Clean Water Act (the Water Pollution Prevention and Control Act), 33 U.S.C. Sections 1251 *et seq.*

Trockman objects to this request on the grounds that it is vague, overly broad and unduly burdensome insofar as it appears to request information and documents regarding Trockman's business activities beyond those specifically related to transactions with Chemetco and that it calls for legal conclusion and argument. Without waiving said objections, however, Trockman states that it has applied for and received an industrial storm water permit (#INR600255) from the Indiana Department of Environmental Management pursuant to 327 IAC 15-6-1, *et seq.* Trockman also states that it applied for and received Exempt Operation Status (#163-15369-00123) from the Indiana Department of Environmental Management pursuant to 326 IAC 2-1.1-3, *at seq.*

23. Identify the federal and state offices to which such information was sent. State the years during which such information was sent/filed.

Trockman objects to this request on the grounds that it is vague, overly broad and unduly burdensome insofar as it appears to request information and documents regarding Trockman's business activities beyond those specifically related to

transactions with Chemetco. Without waiving said objections, however, Trockman states that it submitted information to the Indiana Department of Environmental Management in order to obtain and maintain the permit and classification indicated in Trockman's response to Request No. 22.

24. If you have reason to believe that there may be persons able to provide a more detailed or complete response to any question contained herein or who may be able to provide additional responsive documents, identify such persons and the additional information or documents that they may have.

Trockman objects to this request insofar as it requests information that is outside of Trockman's possession, custody and control. Without waiving said objection, however, Trockman states that individual employees of Chemetco may be able to provide additional information and documents responsive to these requests.

25. If any of the documents solicited in this information request are no longer available, please indicate the reason why they are no longer available. For each and every question contained herein, if information or documents responsive to this Information Request are not in your possession, custody or control, then identify the persons from whom such information or documents may be obtained. If the records were destroyed, provide us with the following:

- (a) the document retention policy between 1970 and 2001;
- (b) a description of how the records were destroyed (burned, trashed, etc.) and the approximate date of destruction;
- (c) a description of the type of information that would have been contained in the documents;
- (d) the name, job title and most current address known by you of the person(s) who would have produced these documents, the person(s) who would have been responsible for the retention of these documents; the person(s) who would have been responsible for the destruction of these documents; and the person(s) who had and/or still may have the originals or copies of these documents; and
- (e) the names and most current address of any person(s) who may possess documents relevant to this inquiry.

Trockman objects to this request insofar as it requests information that is outside of Trockman's possession, custody and control. Without waiving said objection, however, Trockman states that some invoices, notes, bills of lading, scale tickets, receiving reports, check stubs and other documents related to specific transactions between Trockman and Chemetco may no longer be available. Trockman is a small family business with limited resources and limited storage facilities for its business records. Older records that are no longer needed for business, tax or accounting purposes are periodically removed from storage and disposed of as needed to make room for new records. Information contained in those documents would have been similar to that

contained in the documents provided in response to Request No. 2. The person(s) who would have been responsible for the retention of and destruction of these documents is as follows:

Jeff Trockman, Secretary
J. Trockman & Sons, Inc.
P. O. Box 682
Evansville, Indiana 47704

26. Please state the name, title and address of each individual who assisted or was consulted in the preparation of the response to this information request.

Trockman objects to this Request to the extent it seeks information that constitutes, contains, reflects or otherwise reveals confidential communications between Trockman and its attorneys, or that is otherwise protected by the attorney-client privilege and the work-product protection. Without waiving said objection, however, Trockman states that the following individuals assisted in the preparation of this response:

Jeff Trockman, Secretary
J. Trockman & Sons, Inc.
P. O. Box 682
Evansville, Indiana 47704

I certify under the penalty of law that this document and all enclosures were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete, except as otherwise indicated herein. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

J. Trockman & Sons, Inc.

By: 

Jeff Trockman, Secretary

Date: 5/2/12

DOCUMENTS PROVIDED IN RESPONSE TO
EPA'S REQUEST NO. 2

J. Trockman & Sons, Inc.

24754.

Ferrous and Non Ferrous Metals — Industrial Salvage

Terms _____ Shipped To _____

[illegible]

U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812 425-5271

Ferrous and Non Ferrous Metals — Industrial Salvage

EVANSVILLE, INDIANA

Sold To.

Address.

F.O.B.

Terms

Shipped To:

[illegible]

J. TROCKMAN & SONS, INC.

MATERIAL Shedding

CUSTOMER US Bank

DATE 3/2/83

TRUCK NO. 31

TRAILER /BOX NO. _____

DRIVER ON _____

OFF _____

G 77300

T 33100

N 45100

REMARKS:

BY [Signature]

Chemetco

P.O. Box 8 • Hartford, IL 62048

55013

CUSTOMER OR
SUPPLIER _____

J. Trockman & Sons

DATE 3/18/98

[illegible]

J. Trockman & Sons, Inc.

B/L N° 07236

U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812 425-5271

Ferrous and Non Ferrous Metals — Industrial Salvage

Your Order No. # 2556 EVANSVILLE, INDIANA 3-18 1998

Shipped Via U.S. Bulk Sold To Chem etco

Car No. # 34 Address 3576 Chem etco Ln

F.O.B. _____ Hartford, IL 62048

Terms _____ Shipped To _____

[illegible]

1147010E

J. Trockman & Sons, Inc.
U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812 425-5271

Ferrous and Non Ferrous Metals — Industrial Salvage.

EVANSVILLE, INDIANA March 18, 1998

Your Order No. #2556 B/L 7236
U S Bulk

Sold To _____ Chemetco

Shipped Via _____ Address _____ 3576 Chemetco Lane

Car No. #34 Address Hartford, IL 62048

F.O.B.

Shipped To

Terms

[illegible]

J. ROCKMAN & SONS INC.
P.O. BOX 682
EVANSVILLE,
47704 0000

IN

*** FINAL ***

OUR LOT NUMBER 8959
OUR CONTRACT NO. 2556
CARRIER US BULK 34

WE RECEIVED FROM YOU ON 3/18/98
SHREDDED ELECTRIC MOTORS

GROSS WEIGHT 45,C20
DUNNAGE 0

NET WEIGHT 45,C20

MOISTURE NIL

45,C20 LBS NET WT @ 8.50 CENTS PER POUND OF MATERIAL = \$ 3,826.70

TOTAL VALUE OF MATERIAL

\$ 3,826.70

TOTAL AMOUNT DUE

\$ 3,826.70

=====

Chemetco, Inc.

P.O. BOX 8 • HARTFORD, ILLINOIS 62048

INV. NO.	INV. DATE	AMOUNT	DISC.	NET AMOUNT	
			N. 1427	4/22/98	
TYPE PAYMENT	OUR LOT NO.	OUR CONT NO.	INVOICE NO.	CARRIER	AMOUNT
FINAL	8959	2556.010		US BULK 34	\$3,826.70
FINAL	8972	2556.010		OK 200	\$3,874.30
FINAL	C241	2556.010		OK TRANS 18	\$4,073.20

[illegible]

J. Trockman & Sons, Inc.

J. Trockman & Sons, Inc.
U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812 425-5271

Ferrous and Non-Ferrous Metals — Industrial Salvage

EVANSVILLE, INDIANA March 18, 1998

Your Order No. 42556 B/L 7220

Shipped Via OK Transport

Sold To Chemetco

3576 Chemetco Lane

Car No. 200

Address Hartford, IL 62048

F.O.B.

Shipped To:

[illegible]

J. Trockman & Sons, Inc.

B/L № 07220

U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812-425-5271

Ferrous and Non Ferrous Metals — Industrial Salvage

Your Order No. # 2556 EVANSVILLE, INDIANA 3-18 1998
Shipped Via OK Transport Sold To Chem etco
Car No. # 200 Address 3576 Chem etco Lane
F.O.B. Hartford, IL 62048
Terms Shipped To

[illegible]

SCALE TICKET



FIRST IN PEOPLE — QUALITY — SERVICE

P.O. Box 8 • Hartford, IL 62048

65029

**CUSTOMER OR
SUPPLIER**

J. Trockman

DATE 3/18/98

[illegible]

Your Order No. # 2 556

EVANSVILLE, INDIANA

3-18

1990

Shipped Via.

Shipped Via OK Transport

Sold To

Chem et co

Car No.

Car No.

Address

3576 Chem eto lane

Hartford, IL 62048

F.O.B.

Shipped To

Terms

[illegible]

J. Trockman & Sons, Inc.

U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812 425-5271

Your Order No.	#2556	B/L 7220	EVANSVILLE, INDIANA	March 18, 1998	19
Shipped Via	OK Transport		Sold To	Chemetco	
Car No.	#200		Address	3576 Chemetco Lane	
F.O.B.				Hartford, IL 62048	
Terms			Shipped To		

[illegible]

LOCKMAN & SONS INC.
P.O. BOX 682
EVANSVILLE,
47704 0000

IN
*** FINAL ***

OUR LOT NUMBER
OUR CONTRACT NO.
CARRIER
OK 200
GROSS WEIGHT
DUNNAGE
NET WEIGHT

5972
2556
45,580
0

45,580
=====

WE RECEIVED FROM YOU ON 3/18
SHREDDED ELECTRIC MOTORS

45,580 LBS. NET WT @ 8.50 CENTS PER POUND OF MATERIAL =

\$ 3,874

\$ 3,874
\$ 3,874
=====

TOTAL VALUE OF MATERIAL
TOTAL AMOUNT DUE

SHIPPER CAR NO.	GROSS	TARE	NET	PRICE	AMOUNT	GROSS	TARE	NET	PRICE	AMOUNT
	79700	31600	48100	8 1/2¢	4088.50	79500	31580	47920	8 1/2¢	4073.20
TOTALS										

ADVANCE _____ DTD _____
 FREIGHT PD ON 47920 LBS OR 85639 DTD 4/11/98
 CUST PO# ATTACHED TO INVD. 24754
 FINAL SETTLEMENT DTD 4/25/98 76545
 ADJ TO SETTLEMENT ON VOUCHER ATT'D TO INVD _____

_____ LESS FREIGHT
 _____ BALANCE
 SETTLEMENT OVER SHORT SHIPPING TOTAL 15.30
 DUE TO 180 LBS DEAD-FREIGHT OR WT Short
 _____ LBS OR _____

ACT FRT .56¢ 267.39
3805.81
 ACT PRICE
7.91¢

24768

J. Trockman & Sons, Inc.
U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812 425-5271

Ferrous and Non Ferrous Metals — Industrial Salvage

EVANSVILLE, INDIANA March 23, 1998 19

Your Order No. 2556 B/L 7267

Shipped Via OK Transport

Sold To Chemetco

Car No. #186

Address 3576 Chenetco Lane
Hartford, IL 6204

F.O.B.

Shipped To.

Terms

[illegible]

B/L № 07267

Ferrous and Non Ferrous Metals — Industrial Salvage

Your Order No. 2556

EVANSVILLE, INDIANA.

3-73 19 98

Shipped Via OK Transport

Sold To _____

Chem etoo

Car No. _____

186

Address

3576 Chemetco

F.O.B.

Hartford, IL 62048

Terms

Shipped To:

[illegible]

J. TROCKMAN & SONS, INC.

MATERIAL

CUSTOMER

DATE

TRUCK NO.

TRAILER /BOX NO.

DRIVER ON

OFF

G

T

N

REMARKS:

BY

order # 2556

Shredded motors 8 1/2 lb.

Chemeco

3576 Chemeco Ln.

Hartford, IL 62048

3-18-98 1 T/L OK Transport

3-18-98 1 T/L U.S. Bulk

3-23-98 1 T/L OK Transport

7:00 - 4PM

CONTRACT REVIEWED/APPROVED

SIGNATURE: _____ DATE: _____

J. Trockman & Sons, Inc.

Ferrous and Non Ferrous Metals — Industrial Salvage

19

Sold To Chemetco

Address 3576 Chemetco Lane

Hartford, IL 62048

F.O.B.

Terms

Shipped To

[illegible]

Chemetco

P.O. Box 8 • Hartford, IL 62048

CUSTOMER OR
SUPPLIER

J. Trockman

DATE 3/23/98

[illegible]

J. Trockman & Sons, Inc.

B/L N^o 07267.

U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812 425-5271

Ferrous and Non Ferrous Metals — Industrial Salvage

Your Order No. 2556 EVANSVILLE, INDIANA 3-23 1998
Shipped Via OK Transport Sold To Chem etco
Car No. # 186 Address 3576 Chem etco
F.O.B. _____ Hartford, IL 62048
Terms _____ Shipped To _____

[illegible]

J. TROCKMAN & SONS INC.
P.O. BOX 682
EVANSVILLE,
47704 0000

IN

*** FINAL ***

OUR LOT NUMBER C241
OUR CONTRACT NO. 2556
CARRIER OK TRANS 18

GROSS WEIGHT
DUNNAGE

47,920

WE RECEIVED FROM YOU ON 3/23/98
SHREDDED ELECTRIC MOTORS

0

NET WEIGHT

47,920

=====

MOISTURE

NIL

47,920 LBS NET WT @ 8.50 CENTS PER POUND OF MATERIAL =

\$ 4,073.20

\$ 4,073.20

TOTAL VALUE OF MATERIAL
TOTAL AMOUNT DUE

\$ 4,073.20

=====

SHIPPER CAR NO.	GROSS	TARE	NET	PRICE	AMOUNT	GROSS	TARE	NET	PRICE	AMOUNT
	78560	31900	46660	84	373780	77980	31660	46320		
						46320		(2500)		
								43820	84	3505.60
TOTALS										

ADVANCE _____ DTD _____
 FREIGHT PD ON 46320 LBS CK# 816992 DTD 7/24/98
 CUST PO# ATTACHED TO INVD. SAME
 FINAL SETTLEMENT DTD 9/1/98 John 28
 ADJ TO SETTLEMENT ON VOUCHER ATT'D TO INVD _____

LESS FREIGHT _____
 BALANCE _____
 SETTLEMENT OVER SHORT SHIPPING TOTAL 227.20
 DUE TO 2500 LBS DEAD FREIGHT OR DEDUCTION
 _____ LBS OR _____

Act Price .055¢ 258.47
3242.13
 Act Price
696¢

REF 25151

U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812 425-5271

Ferrous and Non Ferrous Metals — Industrial Salvage

EVANSVILLE, INDIANA July 20, 1998 19

Your Order No. 9361 B/L 8379

Shipped Via _____ OF Transport

Sold To Chemetco

Car No. 120

Address 16400 S Lathrop

Harvey, IL 60426

F.O.B.

Shipped To Hartford

Terms.

[illegible]

B/L N^o 3379

U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812 425-5271

Ferrous and Non Ferrous Metals — Industrial Salvage

Your Order No.

EVANSVILLE, INDIANA

Shipped Via.

Sold To.

Car No.

Address.

F.O.B.

Terms

Shipped To

[illegible]

J. TROCKMAN & SONS, INC.

MATERIAL Shrink Wrap

CUSTOMER DC

DATE 3/20/14

TRUCK NO. 180

TRAILER /BOX NO. _____

DRIVER ON _____

OFF _____

G 78568

T 31900

N 06660

REMARKS:

BY AK

[illegible]

J. Trockman & Sons, Inc.

B/L № 8379

U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812 425-5271

Ferrous and Non Ferrous Metals — Industrial Salvage

Your Order No. [#] 9361

EVANSVILLE, INDIANA.

July 20 1998

Shipped Via OK Transport

Sold To: Chemetco

Car No. 780

Address 16400 S Lathrop

F.O.B.

Harvey, IL 60426

Terms

Shipped To Hartford, IL

[illegible]

Chemetco, Inc.

P.O. BOX 8 • HARTFORD, ILLINOIS 62048

INV. NO.	INV. DATE	AMOUNT	DISC.	NET AMOUNT
			M 2392	8/27/98
TYPE PAYMENT	OUR. LOT NO.	OUR CONT NO.	INVOICE NO.	CARRIER
----- FINAL	----- J503	----- 9361.010	-----	-----
			OK 180	AMOUNT ----- \$3,505.60

J. TROCKMAN & SONS
1017. BAYSE
EVANSVILLE
47704 0000

IN

*** FINAL ***

OUR LOT NUMBER J503
OUR CONTRACT NO. 9361
CARRIER OK 180

WE RECEIVED FROM YOU ON 7/20/98
SHREDDED ELECTRIC MOTORS

GROSS WEIGHT 46,320
DUNNAGE 2,500

NET WEIGHT 43,820

MOISTURE NIL

43,820 LBS. NET WT @ 8.00 CENTS PER POUND OF MATERIAL = \$ 3,505.60

TOTAL VALUE OF MATERIAL \$ 3,505.60
TOTAL AMOUNT DUE \$ 3,505.60

[illegible]

VANCE _____ DTD _____
EIGHT PD ON 40980 LBS CK# _____ DTD 11/5/98
JUST PO# ATTACHED TO INVD. SAME
NAL SETTLEMENT DTD 12/8/98 96685
DJ TO SETTLEMENT ON VOUCHER ATT'D TO INVD _____

EIGHT PD ON

JUST PO# ATTACHED TO INVD-

NAL SETTLEMENT DTD.

ADJ TO SETTLEMENT ON VOUCHER ATT'D TO INVD.

LESS FREIGHT

 BALANCE

SETTLEMENT OVER SHORT SHIPPING TOTAL.

DUE TO _____ LBS DEAD FREIGHT OR.

LBS OR.

Act For	.88¢	362.00
		3326.20
Act Price		8.13¢

J. Trockman & Sons, Inc.

№ 25468

Ferrous and Non Ferrous Metals — Industrial Salvage

Terms _____ Shipped To Hartford

[illegible]

J. TROCKMAN & SONS, INC. 5819

Del Pop 29.6

MATERIAL Del Pop 29.6

CUSTOMER Del Pop 29.6 DATE 10/29/61

TRUCK NO. 104 TRAILER / BOX NO. 50

DRIVER ON 104 OFF 50

G 29.6

T 29.6

N 29.6 ✓

REMARKS: 456

open

BY 104

10/21/98 13:25

CHICAGO WH → 812 425 5277

NO.385 P001/001



CHICAGO WAREHOUSE

16400 S. Lathrop • Harvey, IL 60426
800/544-4345 • 708/339-5700 • 708/339-0219 (fax)

TO: JEFF TROCKMAN	
COMPANY: J. TROCKMAN & SONS	DATE: 10-21-98
FAX NUMBER: 812-425-5277	TIME:
Number of Pages (including cover): 1	

☐ URGENT! Contact us immediately!

☐ Return the call at your convenience.

☒ Information as requested.

☐ For your information.

☐ Proof copy attached. Please review and call.

☐ Please respond by FAX.

☐ Please respond by telephone.

☐ No response required.

DEL. ART 29-6

FROM: LUKE KENNEDY

MESSAGE:

BOUGHT 1 LOAD - 40,000 lbs. OF COPPER

BEARING MATERIAL. ESTIMATED CU. RECOVERY - 30%

92/16 @ 30%, 54/16 @ 20 - PRICE WILL BE REFLECTIVE
OF THE COPPER RECOVERY.

DELIVERED TO HARTFORD. 30 DAY MONEY.

CONTRACT #5819 GOOD UNTIL 11/5/98

THANKS JEFF

[Signature]

DELIVERY
800-444-5564
XT 314

CONTRACT REVIEWED/APPROVED
SIGNATURE *[Signature]* DATE 10/23/98

ORIGINAL - NOT NEGOTIABLE
J & S BULK TRANSPORT CO., INC.
1710 S. Co. Rd. 200 W.
Rockport, Indiana 47635
(Name of Carrier)

Shipper No. 9213
Carrier No. B
Date 10-28-98

When transporting hazardous materials include the technical or chemical name for n.o.s. (not otherwise specified) or generic description of material with appropriate UN or NA number as defined in US DOT Emergency Communication Standard (HMI-126C).
Provide emergency response phone number in case of incident or accident in box above.

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

NOTICE: Freight moving under this Bill of Lading is subject to the classifications and lawfully filed tariffs in effect on the date of this Bill of Lading. This notice supersedes and negates any claimed alleged or asserted oral or written contract, promise, representation or understanding between the parties with respect to this freight, except to the extent of any written contract which establishes lawful contract carriage and is signed by authorized representatives of both parties to the contract.

SHIPPER	CARRIER	J & S BULK TRANSPORT CO., INC.
PER	PER	
	DATE	

1

*HAZARDOUS MATERIALS MARK WITH "X" TO DESIGNATE HAZARDOUS MATERIALS AS REFERENCED IN 49CFR § 172.202.

U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812 425-5271

Ferrous and Non Ferrous Metals — Industrial Salvage

Your Order No. 5819, ⁰¹² Delivery App 29-6

EVANSVILLE, INDIANA October 28, 1998 19

Shipped Via J & S

Sold To Chemetco

Car No. _____ Trailer #50

16400 S Lathrop

Harvey, IL 60426

F.O.B.

Shipped To Hartford

Terms.

[illegible]

Chemetco
FIRST IN PEOPLE — QUALITY — SERVICE

P.O. Box 8 • Hartford, IL 62048

**CUSTOMER OR
SUPPLIER**

DATE 10/29/98

[illegible]

Chemetco, Inc.

P.O. BOX 8 • HARTFORD, ILLINOIS 62048

INV. NO.	INV. DATE	AMOUNT	DISC.	NET AMOUNT	
			M 3175	12/01/98	
TYPE PAYMENT	OUR LOT NO.	OUR CONT NO.	INVOICE NO.	CARRIER	AMOUNT
----- FINAL	----- 2800	----- 5819.010	-----	J & S	----- \$3,688.20

J TROCKMAN & SONS
1017 BAYSE
EVANSVILLE
47704 0000

IN

*** FINAL ***

OUR LOT NUMBER Q800
OUR CONTRACT NO. 5819
CARRIER J & S

WE RECEIVED FROM YOU ON 10/29/98
MISC. IRONY BRASS

GROSS WEIGHT 40,980
DUNNAGE 0

NET WEIGHT 40,980

MOISTURE NIL

40,980 LBS NET WT @ 9.00 CENTS PER POUND OF MATERIAL = \$ 3,688.20

TOTAL VALUE OF MATERIAL \$ 3,688.20

TOTAL AMOUNT DUE \$ 3,688.20

=====

[illegible]

ADVANCE

CUST PO# ATTACHED TO INVD-

FINAL SETTLEMENT DTD

ADJ TO SETTLEMENT ON VOUCHER ATT'D TO INVD.

LESS FREIGHT

BALANCE

SETTLEMENT OVER SHORT SHIPPING TOTAL

DUE TO

1 BS DEAD FREIGHT OR

LBS OR

Act Fret 87

350.40

OVER SHORT SHIPPING TOTAL

PRICE CHANGE WT

362.52

2058.40

At Price

49.70

NO 25562

Ferrous and Non Ferrous Metals — Industrial Salvage

Your Order No.	7202	EVANSVILLE, INDIANA	November 25, 1998	19
Shipped Via	J & S Trucking	Sold To	Chemarco	
Car No.	76-32	Address	16400 S Lathrop	
F.O.B.			Harvey, IL 60426	
Terms		Shipped To	Hartford, IL	

[illegible]

U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812 425-5271

Ferrous and Non Ferrous Metals — Industrial Salvage

[illegible]

TRUCKMAN & SONS, INC.

MATERIAL

CUSTOMER

DATE

TRUCK NO.

TRAILER / BOX NO.

DRIVER ON

OFF

G

T

N

REMARKS:

BY

J & S BULK TRANSPORT CO., INC.
1710 S. Co. Rd. 200 W.
Rockport, Indiana 47635
(Name of Carrier)

Carrier No.

Date 11-25-98

signee <u>Chemeco</u>		FROM: Shipper <u>Trockman</u>			
ret		Street			
destination		Origin	Vehicle Number <u>76-32</u>		
ite		Emergency Response Phone No.			
Shipping Units	HM*	Kind of Packaging, Description of Articles, Special Marks and Exceptions	Weight (subject to correction)	Rate	CHARGES
<u>1/2</u>		<u>Shredder Copper Benning</u>	<u>75500</u>		
			<u>34100</u>		
			<u>41400</u>		
Driver <u>Brad Branch</u>					

When transporting hazardous materials include the technical or chemical name for n.o.s. (not otherwise specified) or generic description of material with appropriate UN or NA number as defined in US DOT Emergency Communication Standard (HM-126C).
Provide emergency response phone number in case of incident or accident in box above.

EMIT C.O.D. TO: ADDRESS:	COD Amt: \$	C.O.D. FEE: PREPAID <input type="checkbox"/> \$ COLLECT <input type="checkbox"/> \$
NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____	This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. _____ Signature	TOTAL CHARGES: \$ FREIGHT CHARGES: FREIGHT PREPAID <input type="checkbox"/> Check box if charges are to be collected except when box at right is checked <input type="checkbox"/>

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any said portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms

and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

NOTICE: Freight moving under this Bill of Lading is subject to the classifications and lawfully filed tariffs in effect on the date of this Bill of Lading. This notice supersedes and negates any claimed, alleged or asserted oral or written contract, promise, representation or understanding between the parties with respect to this freight, except to the extent of any written contract which establishes lawful contract carriage and is signed by authorized representatives of both parties to the contract.

SHIPPER <u>Easley</u>	CARRIER <u>J & S BULK TRANSPORT CO., INC.</u>
PER <u>11/25/98</u>	PER <u>[Signature]</u>
	DATE <u>11/25/98</u>

HAZARDOUS MATERIALS MARK WITH "X" TO DESIGNATE HAZARDOUS MATERIALS AS REFERENCED IN 49CFR 172.202.

800 444 55 67 x314
B/L N° 9396

B/LN^o 9396

Your Order No.

EVANSVILLE, INDIANA

Shipped Via_

Sold To.

Car No..

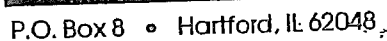
Address.

F.O.B.

Terms

Shipped To

[illegible]



✓ Trockman

DATE 11/25/88

[illegible]

J TROCKMAN & SONS
1017 BAYSE
EVANSVILLE
47704 0000

IN

*** FINAL ***

OUR LOT NUMBER S485
OUR CONTRACT NO. 7207
CARRIER J & S

WE RECEIVED FROM YOU ON 11/25/98
SHREDDED ELECTRIC MOTORS

GROSS WEIGHT 41,340
DUNNAGE 1,000

NET WEIGHT 40,340

=====

MOISTURE NIL

40,340 LBS NET WT @ 6.00 CENTS PER POUND OF MATERIAL = \$ 2,420.40

TOTAL VALUE OF MATERIAL \$ 2,420.40

TOTAL AMOUNT DUE \$ 2,420.40
=====

[illegible]

ADVANCE _____ DTD _____ 11/1

CUST PO# ATTACHED TO INVD-1 85515

ADJ TO SETTLEMENT ON VOUCHER ATT'D TO INVD _____

LESS FREIGHT

SETTLEMENT OVER SHORT SHIPPING TOTAL 20

DUE TO 340 LBS DEAD FREIGHT OF MOVIE

LBS OR _____

Act Fort. 8-94

362.50
2070.40

Ac Price
5.064

1944

U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812 425-5271

Your Order No. 8003 E/L 9416

EVANSVILLE, INDIANA December 1, 1900 1900

Shipped Via J E S

Sold To Chemetco

Car No. #76

Address 16400 E Lathrop

F.O.B.

Harvey, IL 60426

Terms

Shipped To Wartford, IL

[illegible]

U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812 425-5271

Ferrous and Non Ferrous Metals — Industrial Salvage

[illegible]

J. TROCKMAN & SONS, INC.

MATERIAL Shredder

CUSTOMER 64

DATE 1/16/85

TRUCK NO. 64

TRAILER /BOX NO. _____

DRIVER ON _____

OFF _____

G 737.80

T 328.00

N 400.00

REMARKS:

BY [Signature]

39140

43780

33780

Shredder
Pickup 64

8005

Chemetco
FIRST IN PEOPLE - QUALITY - SERVICE

P.O. Box 8 • Hartford, IL 62048

CUSTOMER OR
SUPPLIER _____

A. Trockman

DATE 12/1/98

TIME		DATE	REGISTER NO	WEIGHTS	LOT NUMBER
GROSS				74840	LB 11118 48 12 01 98
TARE				34300	R.R. 11131 AM 12 01 98
NET REC.				40540	CAR NO.
PRODUCT <u>8005.010</u> <u>40880</u> <u>Shredded motors</u> <u>Lot # 5742</u>					MARKED TARE
					TRUCK NO.
					TRAILER NO. <u>J1S Bulk</u>
					WEATHER
					DRIVER'S SIGNATURE X
					WEIGHER X

[Signature]

J. Trockman & Sons, Inc.

B/L N^o 9416

U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812 425-5271

Ferrous and Non Ferrous Metals — Industrial Salvage

Your Order No. 8005

EVANSVILLE, INDIANA December 1st 1998

Shipped Via Air

Sold To Chem et co

Car No.

Address 16400 S Lathrop

F.O.B.

Harvey, IL 60426

Terms

Shipped To Hartford, IL

[illegible]

ORIGINAL - NOT NEGOTIABLE
J & S BULK TRANSPORT CO., INC.
1710 S. Co. Rd. 200 W.
Rockport, Indiana 47635

Carrier No. **B 9416**
Date **12-1-98**

TO: Consignee Chemarco		FROM: Shipper Truckman & Sons, Inc.	
Street		Street	
Destination Hartford ILL		Origin EVANSVILLE IN	
Route		Emergency Response Phone No.	
No. Shipping Units	HM*	Kind of Packaging, Description of Articles, Special Marks and Exceptions	Weight (subject to correction)
1716		Shredder Copper Bearings	23780
			32900
			40880
Rate		CHARGES	
Driver Paul Burch		Vehicle Number 76-50	

When transporting hazardous materials include the technical or chemical name for n.o.s. (not otherwise specified) or generic description of material with appropriate UN or NA number as defined in US DOT Emergency Communication Standard (HM-126C).
Provide emergency response phone number in case of incident or accident in box above.

REMIT C.O.D. TO: ADDRESS:	COD Amt: \$	C.O.D. FEE: PREPAID <input type="checkbox"/> \$ COLLECT <input type="checkbox"/> \$
NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ _____ per _____	This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. _____ Signature	TOTAL CHARGES: \$ FREIGHT CHARGES: FREIGHT PREPAID <input type="checkbox"/> Check box if charges except when box at right is checked <input type="checkbox"/> are to be collect

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated above and which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms

and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

NOTICE: Freight moving under this Bill of Lading is subject to the classifications and lawfully filed tariffs in effect on the date of this Bill of Lading. This notice supersedes and negates any claimed, alleged or asserted oral or written contract, promise, representation or understanding between the parties with respect to this freight, except to the extent of any written contract which establishes lawful contract carriage and is signed by authorized representatives of both parties to the contract.

SHIPPER Easley 12/1/98	CARRIER J & S BULK TRANSPORT CO., INC.
PER [Signature]	PER [Signature]
DATE 12/1/98	DATE 12/1/98

HAZARDOUS MATERIALS MARK WITH "X" TO DESIGNATE HAZARDOUS MATERIALS AS REFERENCED IN 49CFR § 172.202.

J TROCKMAN & SONS
1017 BAYSE
EVANSVILLE
47704 0300

IN

*** FINAL ***

OUR LOT NUMBER S742
OUR CONTRACT NO. 8005
CARRIER J & S BULK

WE RECEIVED FROM YOU ON 12/01/98
SHREDDED ELECTRIC MOTORS

GROSS WEIGHT 40,540
DUNNAGE 0

NET WEIGHT 40,540

MOISTURE NIL

40,540 LBS NET WT @ 6.00 CENTS PER POUND OF MATERIAL = \$ 2,432.40

TOTAL VALUE OF MATERIAL \$ 2,432.40

TOTAL AMOUNT DUE \$ 2,432.40

=====

SHIPPER CAR NO.	GROSS	TARE	NET	PRICE	AMOUNT	GROSS	TARE	NET	PRICE	AMOUNT
	78880	36100	42780	64	256680			40340		
								42200	64	2532.02
TOTALS										

ADVANCE _____ DTD _____
 FREIGHT PD ON 42780 LBS CK# 88564 DTD 12/9/98
 CUST PO# ATTACHED TO INVD. 25515
 FINAL SETTLEMENT DTD 1/12/99 96703
 ADJ TO SETTLEMENT ON VOUCHER ATT'D TO INVD. _____

_____ LESS FREIGHT ACT FRT 1854 362.00
 _____ BALANCE 2470.00
 SETTLEMENT OVER SHORT SHIPPING TOTAL 3480 ACT PRICE
 DUE TO _____ LBS DEAD FREIGHT OR _____ 5.074
 _____ LBS OR _____

J. Trockman & Sons, Inc.

U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812 425-5271

Ferrous and Non Ferrous Metals — Industrial Salvage

EVANSVILLE, INDIANA December 1, 1902 19

Your Order No. 8005 B/L 9426

Shipped Via J & S Sold To Chematco

Car No. #76 Address 16400 S Lathrop

F.O.B. Harvey, IL 60426

Terms Hartford, IL Shipped To

[illegible]

9926

Ferrous and Non Ferrous Metals — Industrial Salvage

[illegible]

J. TROCKMAN & SONS, INC.

MATERIAL

CUSTOMER

DATE

TRUCK NO.

TRAILER /BOX NO.

DRIVER ON

OFF

G

T

N

REMARKS:

Shredder copper bearing ...

BY

SCALE TICKET



FIRST IN PEOPLE - QUALITY - SERVICE

P.O. Box 8 • Hartford, IL 62048

67053

CUSTOMER OR
SUPPLIER

J. Trockman

DATE 12/2/98

	TIME	DATE	REGISTER NO	WEIGHTS	LOT NUMBER
GROSS				78120	LB 09/4/8 10 11 98
TARE				35420	LB 10/120 11 12 02 98
NET REC.				42700	MARKED TARE
					TRUCK NO.
					TRAILER NO. J+S
					WEATHER
					DRIVER'S SIGNATURE X
					WEIGHER X

PRODUCT

8005010

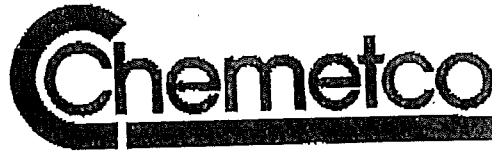
42780 Shredded motors

Lot # 5804

11/30/98 10:49

CHICAGO WH → 812 425 5277

NO.410 P001/001

December "98"
order

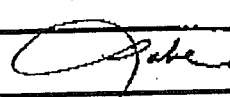
CHICAGO WAREHOUSE

16400 S. Lathrop • Harvey, IL 60426
800/544-4345 • 708/339-5700 • 708/339-0219 (fax)

TO: JEFF TROCKMAN	
COMPANY: J. TROCKMAN	
FAX NO.: 812-425-5277	DATE: 11-30-98
NUMBER OF PAGES(INCLUDING COVER): 1	TIME:

☐ URGENT ! Contact us immediately☐ Return the call at your convenience☒ Information as requested☐ For your information☐ Proof copy attached☐ Please respond by FAX☐ Please respond by telephone☐ No response required

For 2 T/L'S per Jeff

From :	LUKE KENEDY
Message:	CONTRACT # 8005
45,000 lbs scheduled wood Pickings @ 6¢ Delivered	
TO HANDED. 30 Day money	
Thanks JEFF,	
	

12-1-98 1 T/L

12-1-98 1 T/L

CONFIRMED
DATE 11/30/98

J. TROCKMAN & SONS
Order Memo

QUALITY MANAGEMENT SYSTEM

Form 03-01 Revision 00

XXXX NEW (VERBAL) ORDER	ORDER CHANGE / UPDATE
<div style="display: flex; justify-content: space-between;"> <div style="width: 70%;"> <h2 style="margin: 0;">CONSUMER IDENTIFICATION</h2> </div> <div style="width: 25%;"> <p>Date: <u>12-01-98</u></p> </div> </div>	
Consumer Name <u>Chemetco</u>	
Contact: _____	
Address <u>16400 S Lathrop</u>	
<u>Harvey, IL 60426</u>	
Phone _____	
<h3 style="margin: 0;">Material Ordered</h3> <div style="margin-top: 20px;"> <p>Description: <u>Shredder Copper Bearing</u></p> </div>	<h3 style="margin: 0;">Order Change Information</h3> <p style="font-size: small;">(Write order change information only)</p>
Quantity: <u>TBD</u>	
Destination: (If other than above) <u>Hartford, IL</u>	
Price: <u>6¢</u>	
Special Instructions:	
<h2 style="margin: 0;">VERBAL ORDER / CHANGE REVIEW AND APPROVAL</h2>	
Order/change approved <u>X</u>	
Date <u>11-30-98</u>	

1- T/L 12-1-98

STRAIGHT BILL OF LADING

ORIGINAL - NOT NEGOTIABLE
J & S BULK TRANSPORT CO., INC.
1710 S. Co. Rd. 200 W.
Rockport, Indiana 47635
(Name of Carrier)

Shipper No. _____
Carrier No. B 9426
Date 12-2-88

TO: Consignee <u>Chemetco</u>		FROM: Shipper <u>Trockman & Sons Inc.</u>	
Street _____		Street _____	
Destination <u>Hartford IDA</u>		Origin <u>EVANSVILLE IN.</u>	
Route _____		Emergency Response Phone No. _____	
Vehicle Number _____		Rate _____	
CHARGES			
No. Shipping Units	HM*	Kind of Packaging, Description of Articles, Special Marks and Exceptions	Weight (subject to correction)
17 1/2		Shredder Copper Bearing	S 78880 T 36100 N 42780
Driver <u>Brad Branch</u>			

When transporting hazardous materials include the technical or chemical name for H.O.S. (not otherwise specified) or generic description of material with appropriate UN or NA number as defined in US DOT Emergency Communication Standard (HM-126C).
Provide emergency response phone number in case of incident or accident in box above.

REMIT
C.O.D. TO:
ADDRESS:

COD Amt: \$

C.O.D. FEE:
PREPAID ☐ \$
COLLECT ☐ \$

TOTAL CHARGES: \$

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Signature _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

FREIGHT CHARGES:
FREIGHT PREPAID ☐ Check box if charges are to be collected
right is checked ☐

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms

and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

NOTICE: Freight moving under this Bill of Lading is subject to the classifications and lawfully filed tariffs in effect on the date of this Bill of Lading. This notice supersedes and negates any claim, contract, promise, representation or understanding between the parties with respect to this freight, except to the extent of any written contract which establishes lawful contract carriage and is signed by authorized representatives of both parties to the contract.

SHIPPER

PER

CARRIER

PER

DATE

J & S BULK TRANSPORT CO., INC.

1

HAZARDOUS MATERIALS MARK WITH "X" TO DESIGNATE HAZARDOUS MATERIALS AS REFERENCED IN 49 CFR § 172.202.

J TROCKMAN & SONS.
1017 BAYSE
EVANSVILLE
47704 0000

IN

*** FINAL ***

OUR LOT NUMBER
OUR CONTRACT NO.
CARRIER

S804
8005

WE RECEIVED FROM YOU ON 12/02/98
SHREDDED ELECTRIC MOTORS

J & S
GROSS WEIGHT 42,700
DUNNAGE 500

NET WEIGHT 42,200
=====

MOISTURE NIL

42,200 LBS NET WT @ 6.00 CENTS PER POUND OF MATERIAL = \$ 2,532.00

TOTAL VALUE OF MATERIAL
TOTAL AMOUNT DUE

\$ 2,532.00
\$ 2,532.00
=====

[illegible]

ADVANCE _____ DTD _____

FREIGHT PD ON _____ LBS CK# _____ DTD _____

CUST PO# ATTACHED TO INV# SAME 01007

FINAL SETTLEMENT DTD 11/07/14

ADJ TO SETTLEMENT ON VOUCHER ATT'D TO INVD. 1

3393.00

Act Price

8.93d

J. Trockman & Sons, Inc.

25515

Ferrous and Non Ferrous Metals — Industrial Salvage

EVANSVILLE, INDIANA Nov. 11, 1998 1998

Sold To Chemetco

16400 S Lathrop

Harvey, IL 60426

Terms _____ Shipped To BARTON, IL

[illegible]

J. HUCKLEMAN & SONS, INC.
U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812 425-5271

Ferrous and Non Ferrous Metals — Industrial Salvage

Terms

Address.

Shipped To

[illegible]

J. TROCKMAN & SONS, INC.

MATERIAL

CUSTOMER

DATE

TRUCK NO.

TRAILER /BOX NO.

DRIVER ON

OFF

G

T

N

REMARKS:


BY

order # 6361

J. TROCKMAN & SONS
Order Memo

QUALITY MANAGEMENT SYSTEM

Form 03-01 Revision 00

<input checked="" type="checkbox"/> NEW (VERBAL) ORDER		<input type="checkbox"/> ORDER CHANGE / UPDATE	
CONSUMER IDENTIFICATION		Date: <u>11-11-98</u>	
Consumer Name <u>Chemetco</u>			
Contact: _____			
Address <u>16400 S Lathrop</u>			
<u>Harvey, IL 60426</u>			
Phone _____			
Material Ordered		Order Change Information (Write order change information only)	
Description: <u>copper bearing scrap</u>			
Quantity: <u>1- Load</u>			
Destination: (If other than above) <u>Hartford, IL</u>			
Price: <u>open</u>			
Special Instructions:			
VERBAL ORDER / CHANGE REVIEW AND APPROVAL			
Order/change approved: 		Date <u>11-11-98</u>	

Chemetco

P.O. Box 8 • Hartford, IL 62048

**CUSTOMER OR
SUPPLIER**

DATE _____

11 / 11 / 91

[illegible]

J. Trockman & Sons, Inc.

J. Trockman & Sons, Inc.
U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812 425-5271

Ferrous and Non Ferrous Metals — Industrial Salvage

EVANSVILLE, INDIANA

Your Order No. 6361

Shipped Via.

Car No.

F.O.B.:

Terms

Sold To.

Address.

Shipped To

[illegible]

J TROCKMAN & SONS
1017 BAYSE
EVANSVILLE
47704 0000

IN

*** FINAL ***

OUR LOT NUMBER R505
OUR CONTRACT NO. 6361
CARRIER TROCKMAN

WE RECEIVED FROM YOU ON 11/11/98
MISC. IRONY BRASS

GROSS WEIGHT 37,700
DUNNAGE 0

NET WEIGHT 37,700

MOISTURE NIL

37,700 LBS NET WT @ 9.00 CENTS PER POUND OF MATERIAL = \$ 3,393.00

TOTAL VALUE OF MATERIAL

TOTAL AMOUNT DUE

\$ 3,393.00

\$ 3,393.00

=====

Chemetco, Inc.

P.O. BOX 8 • HARTFORD, ILLINOIS 62048

INV. NO.	INV. DATE	AMOUNT	DISC.	NET AMOUNT	
			M 3431	1/04/99	
TYPE PAYMENT	OUR LOT NO.	OUR CONT NO.	INVOICE NO.	CARRIER	AMOUNT
FINAL	R505	6361.010		TROCKMAN	\$3,393.00
FINAL	S485	7207.010		J & S	\$2,420.40
FINAL	S742	8005.010		J & S BULK	\$2,432.40
FINAL	S804	8005.010		J & S	\$2,532.00

SHIPPER CAR NO.	GROSS	TARE	NET	PRICE	AMOUNT	GROSS	TARE	NET	PRICE	AMOUNT
	14380	23540	40840	68¢	2777.20	#2		37680	68¢	25622.40
						LA Copm		3000	63¢	1890.00
TOTALS										

ADVANCE _____ DTD _____

LESS FREIGHT _____

FREIGHT PD ON _____ LBS CK# _____ DTI _____

BALANCE _____

CUST PO# ATTACHED TO INVD SAME

SETTLEMENT OVER SHORT SHIPPING TOTAL

FINAL SETTLEMENT DTD 9/2/00 07/15

DUE TO _____ LBS DEAD FREIGHT OR _____

ADJ TO SETTLEMENT ON VOUCHER ATT'D TO INVD _____

_____ LBS OR _____

27572.40

ACT PRICE

67.37¢

28319

U. S. HIGHWAY 41 SOUTH • POST OFFICE BOX 682 • EVANSVILLE, INDIANA 47704 • PHONE 812 425-5271

Your Order No. 5204
 Shipped Via Our Truck
 Car No. 71-69
 F.O.B. _____
 Terms _____

EVANSVILLE, INDIANA Aug. 15, 2000
 Sold To Chemetco
 Address 2684 Missouri Avenue
Granite City, IL 62040
 Shipped To _____

[illegible]

FAX 618-451-9351
CEMET CO

VENO
4703

618-581-
BARR # 5204
684

~~11/11/11~~
DAYS @ 3

St. Louis

449-550

J. Trockman & Sons, Inc.

Ferrous and Non Ferrous Metals — Industrial Salvage

Shipped To

7684 Missouri Ave

Granite City, IL 62040

[illegible]



**CUSTOMER OR
SUPPLIER**

/Rückmann

DATE 08/11/00

[illegible]

8/14/00
 CHEMETCO ST. LOUIS WAREHOUSE PHONE : 314-389-3771
 5801 HALL STREET
 ST. LOUIS, MO. 63147

DATE 8/14/00

RECEIVING REPORT FOR: J. TROCKMAN & SONS INC.

ITEM	TYPE OF MATERIAL	CONTRACT	GROSS	TARE	NET WGT	PACKAGING	LOCATION	VEHICLE
=====	=====	=====	=====	=====	=====	=====	=====	=====
1	NO.2 COPPER / NO.2 TUBO	5204.016	37680		37680	LOOSE	STL	CUSTOMERS
	MATERIAL TOTAL		37680		37680			
2	LIGHT COPPER / COBRE 3	5244.013	3000		3000	LOOSE	STL	CUSTOMERS
	MATERIAL TOTAL		3000		3000			
	TOTAL RECEIVED		40680		40680			

CHEMETCO ST. LOUIS WAREHOUSE 1-(800) 444-5564
03571

8/23/00

Q MATERIAL	WT/UNT	PRICE	CARRIER	AMOUNT
NO. 2 COPPER / NO. 2 TUBO	19220#	C 68.00	CUSTOMERS	\$13,069.60
LIGHT COPPER / COBRE 3	3000#	C 63.00	CUSTOMERS	1,890.00
NO. 2 COPPER / NO. 2 TUBO	18460#	C 68.00	CUSTOMERS	12,552.80

ROCKMAN & SONS INC.
BOX 682
SVILLE,
2000

IN

127,512.40

[illegible]

LESS FREIGHT

SETTLEMENT OVER SHORT SHIPPING TOTAL

LBS OR

27144.60
Act Price
67.16¢

J. Trockman & Sons, Inc.

2343

[illegible]

[illegible]

27

DATE _____

TRAILER / BOX NO: 62

OFF

20

194

07/07/20

Peter Bowden

69 & Del

17th

Order 6340

~~479-8895~~

SCALE TICKET



FIRST IN — PEOPLE — QUALITY — SERVICE

P.O. Box 8 • Hartford, IL 62048

7-531

**CUSTOMER OR
SUPPLIER**

St. Louis

DATE 09/10/61

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CHEMETCO ST. LOUIS WAREHOUSE 1-(800) 444-5564

03612

9/19/00

OUR CONT NO MATERIAL

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22540#	C 69.00	THEIR TRUCK	15,552.1
11661#	C 69.00	THEIR TRUCK	8,046.5

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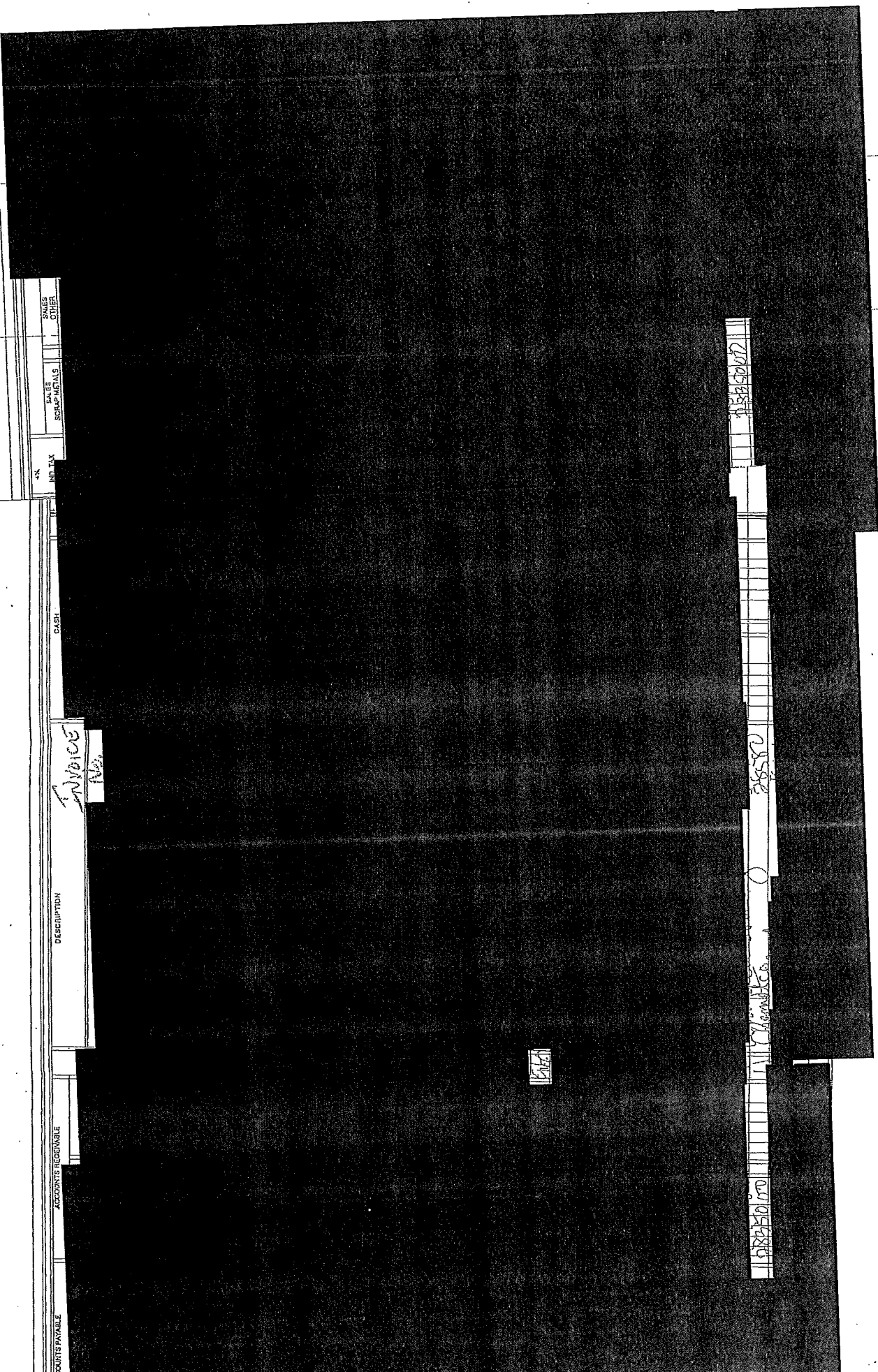
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J. TROCKMAN & SONS INC.

P.O. BOX 682

EVANSVILLE,

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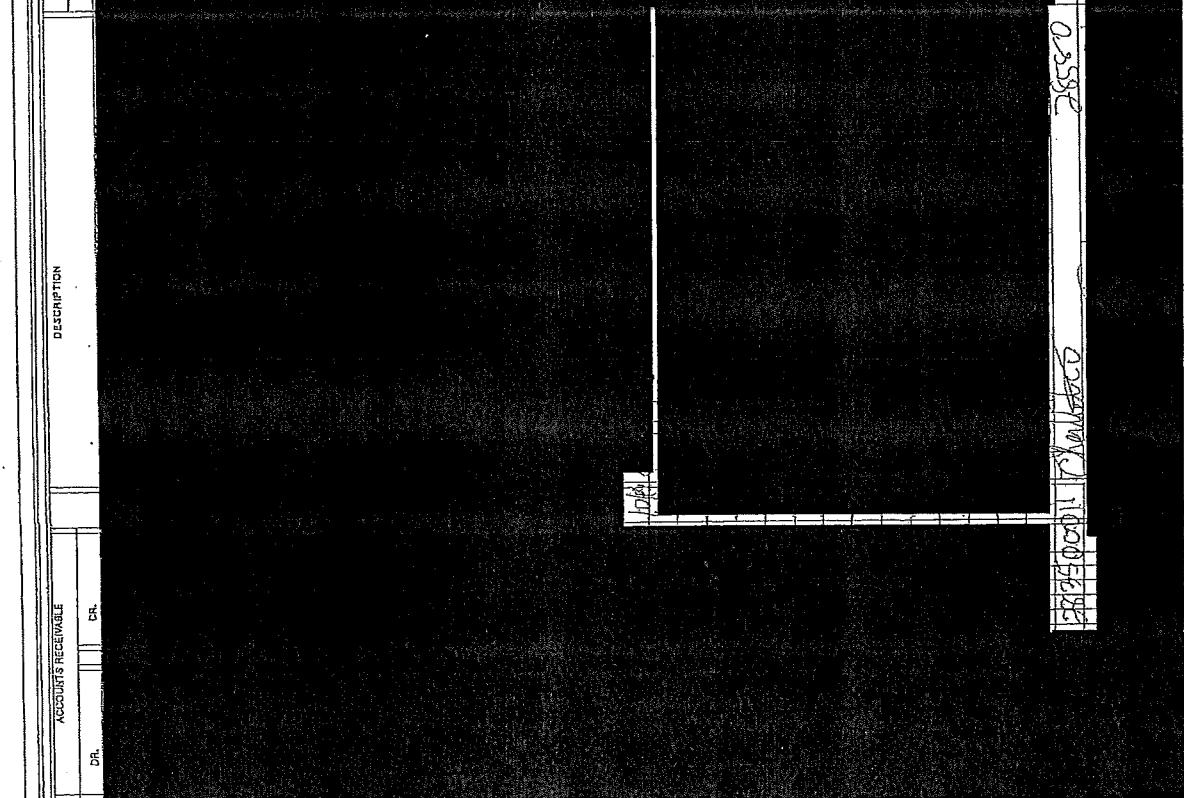
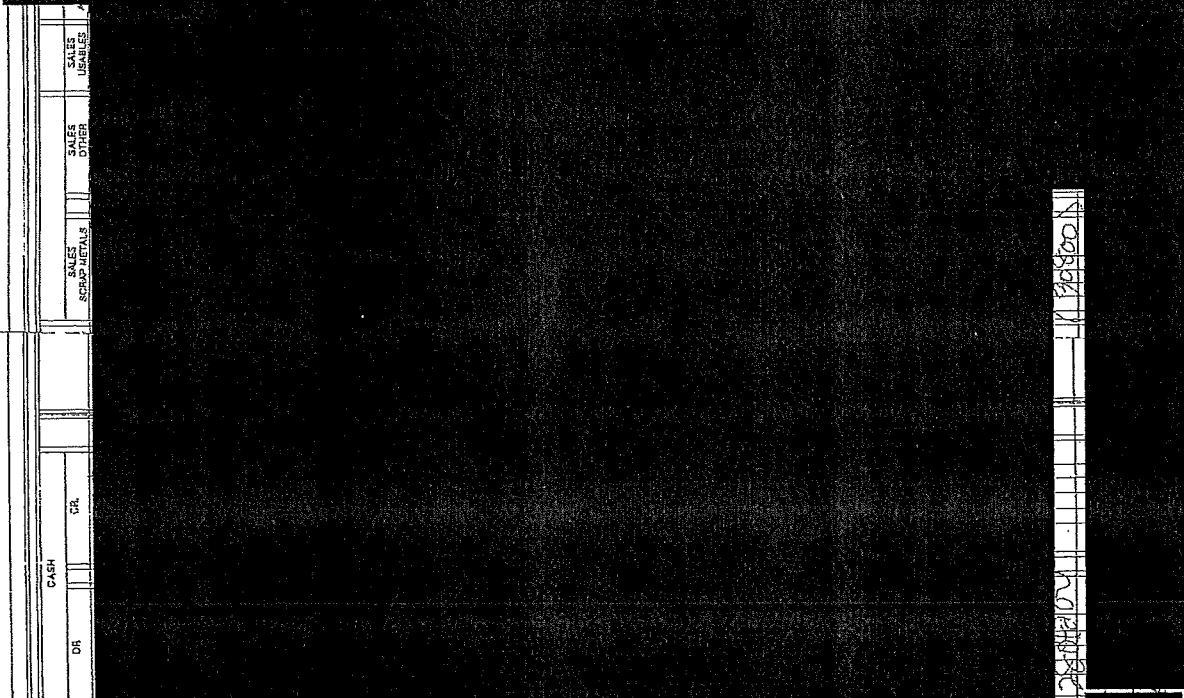
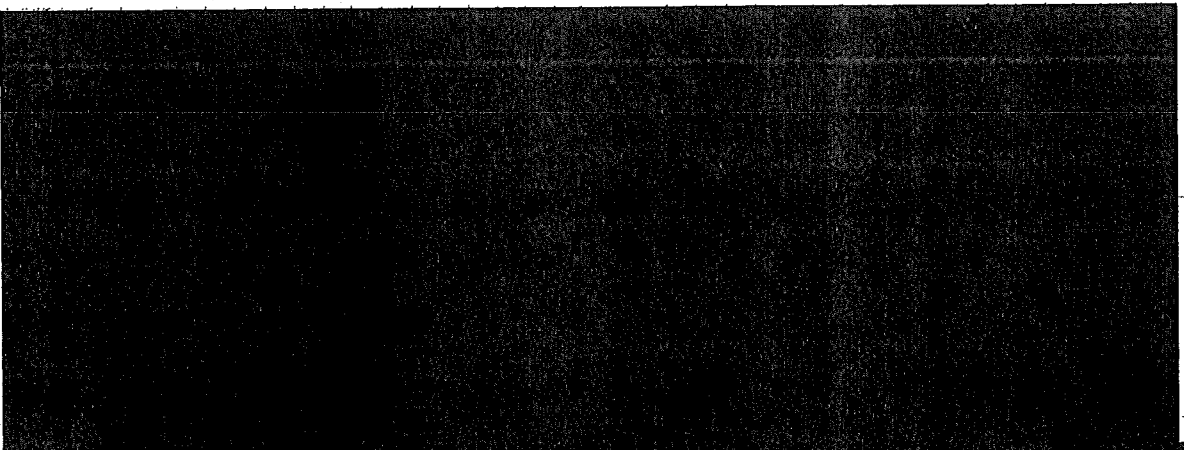
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SALES	SALES	SALES
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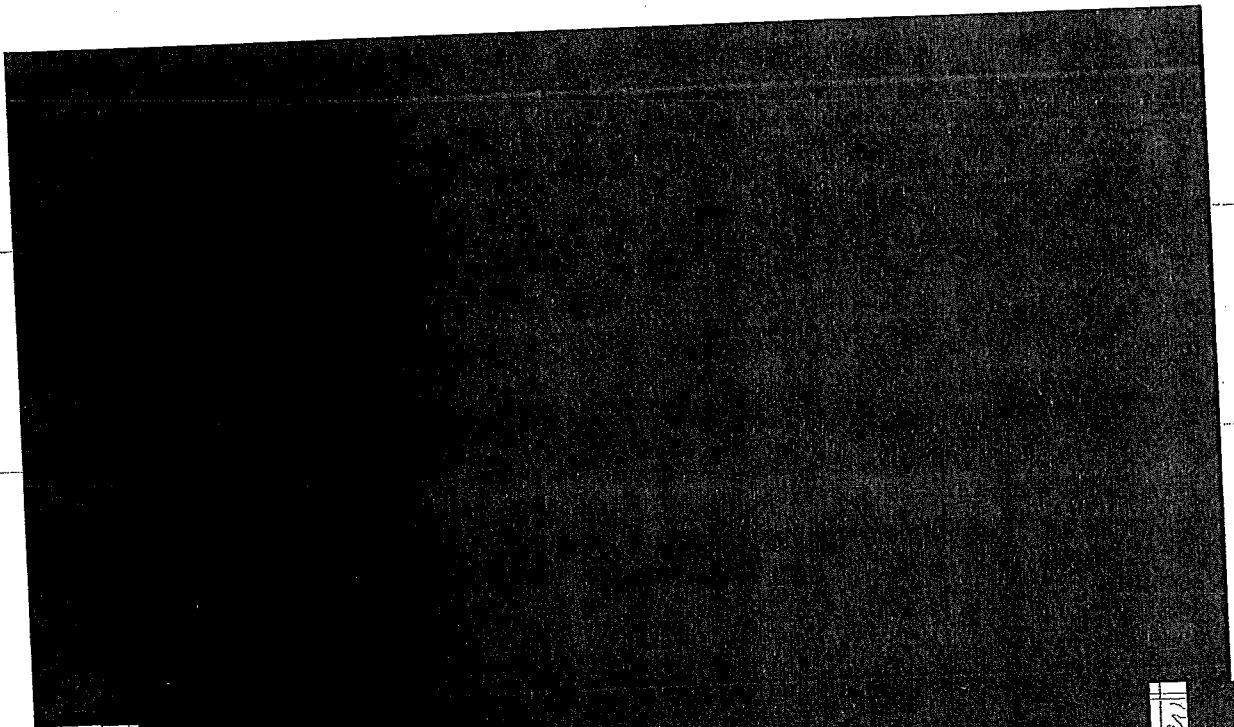
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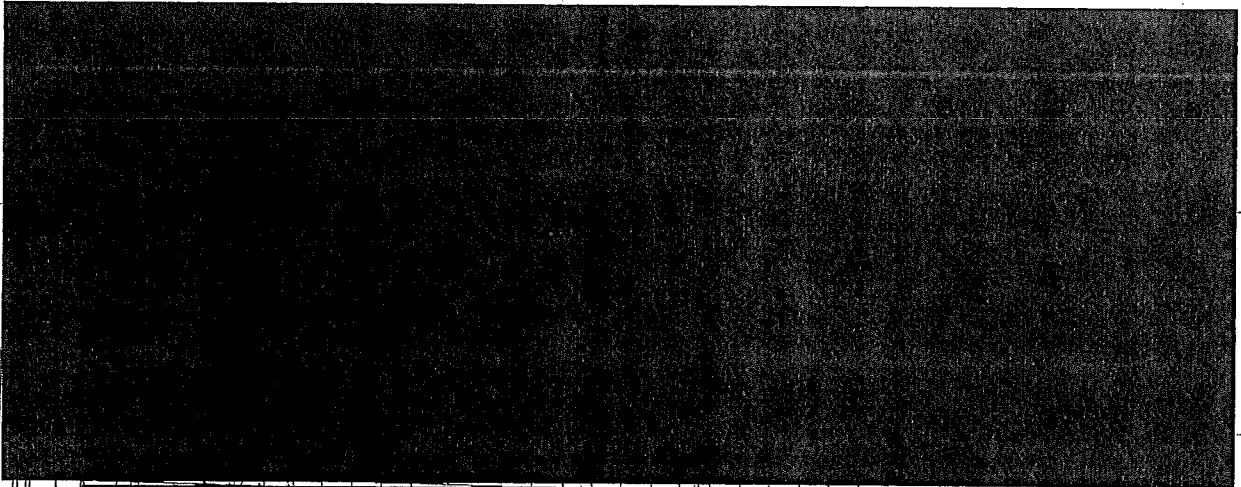
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SALES	
SCRAP METALS	

CASH	CR.
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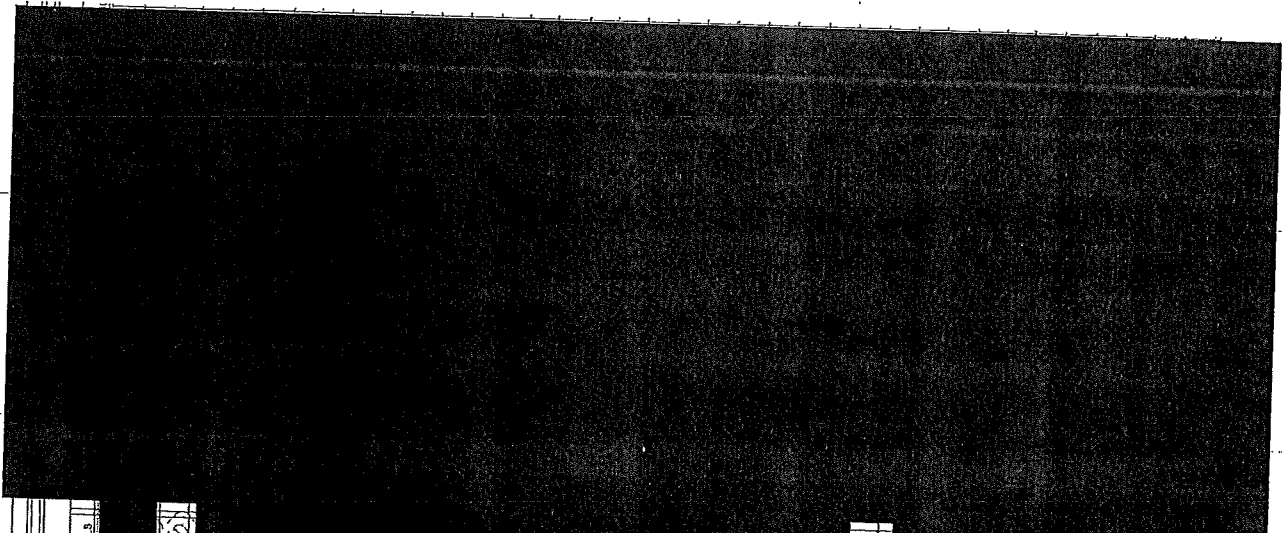
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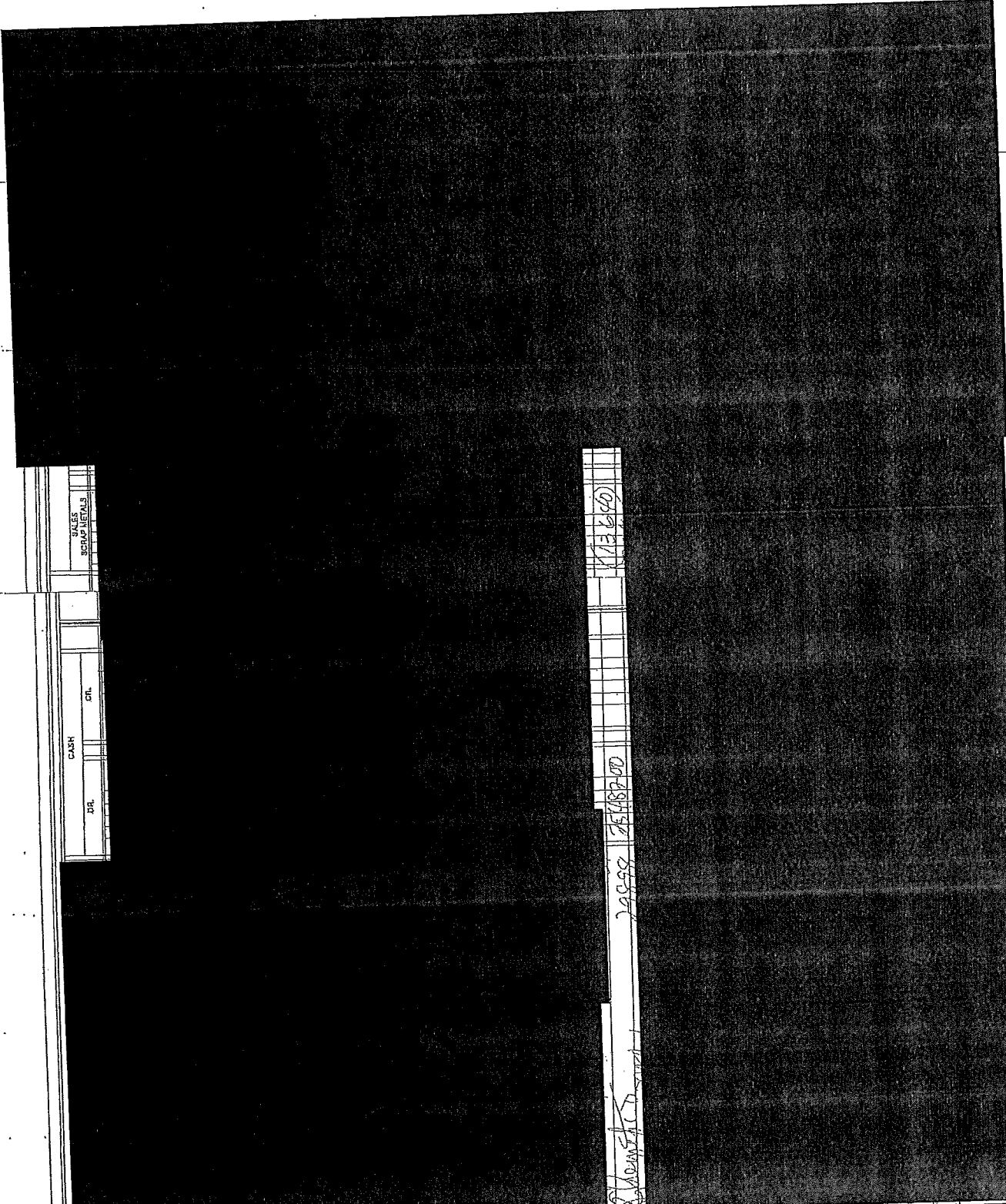
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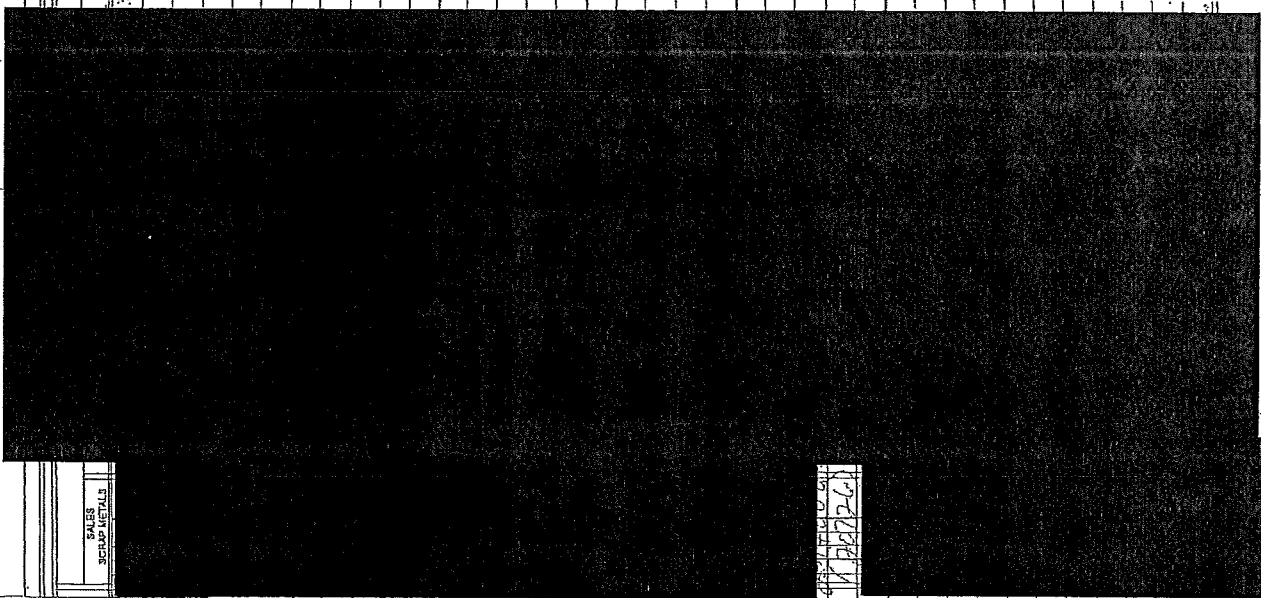
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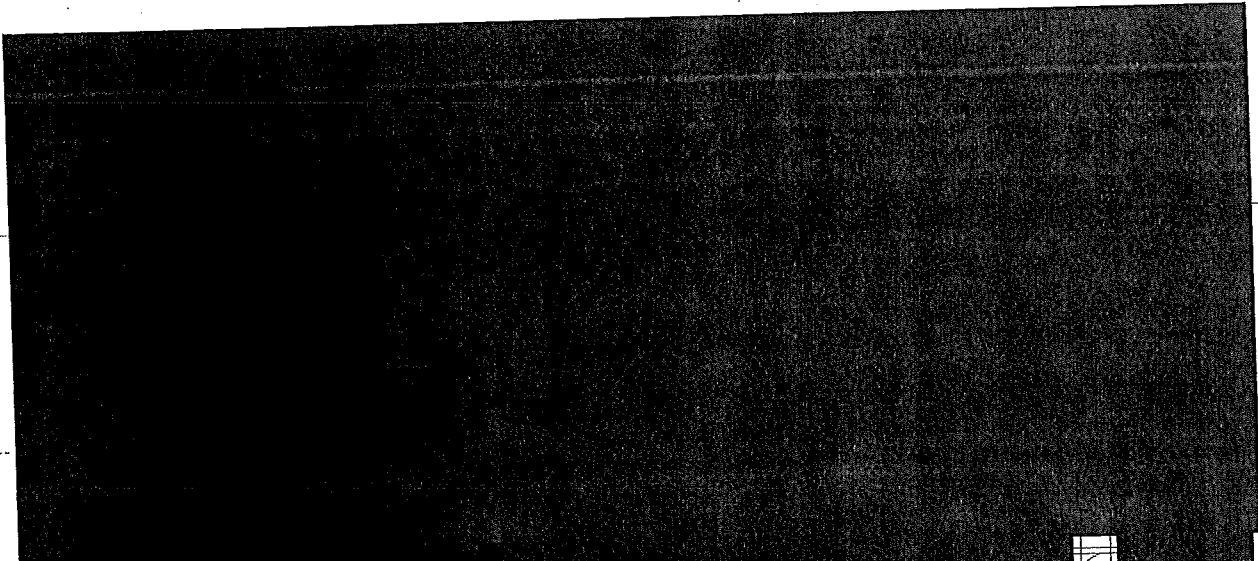
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SALES
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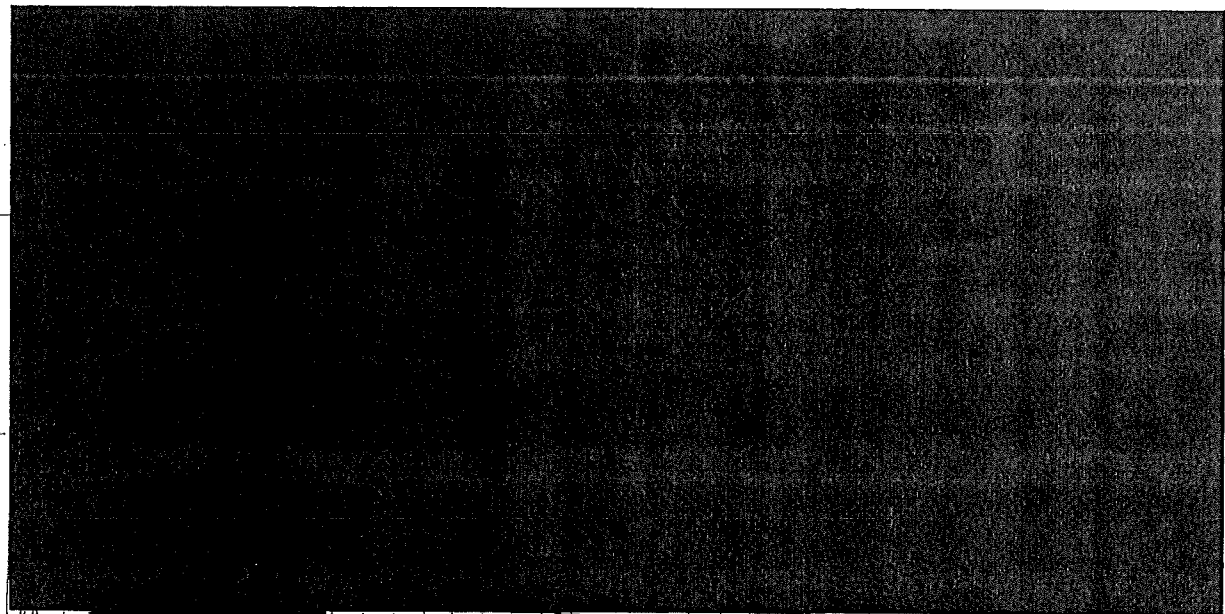
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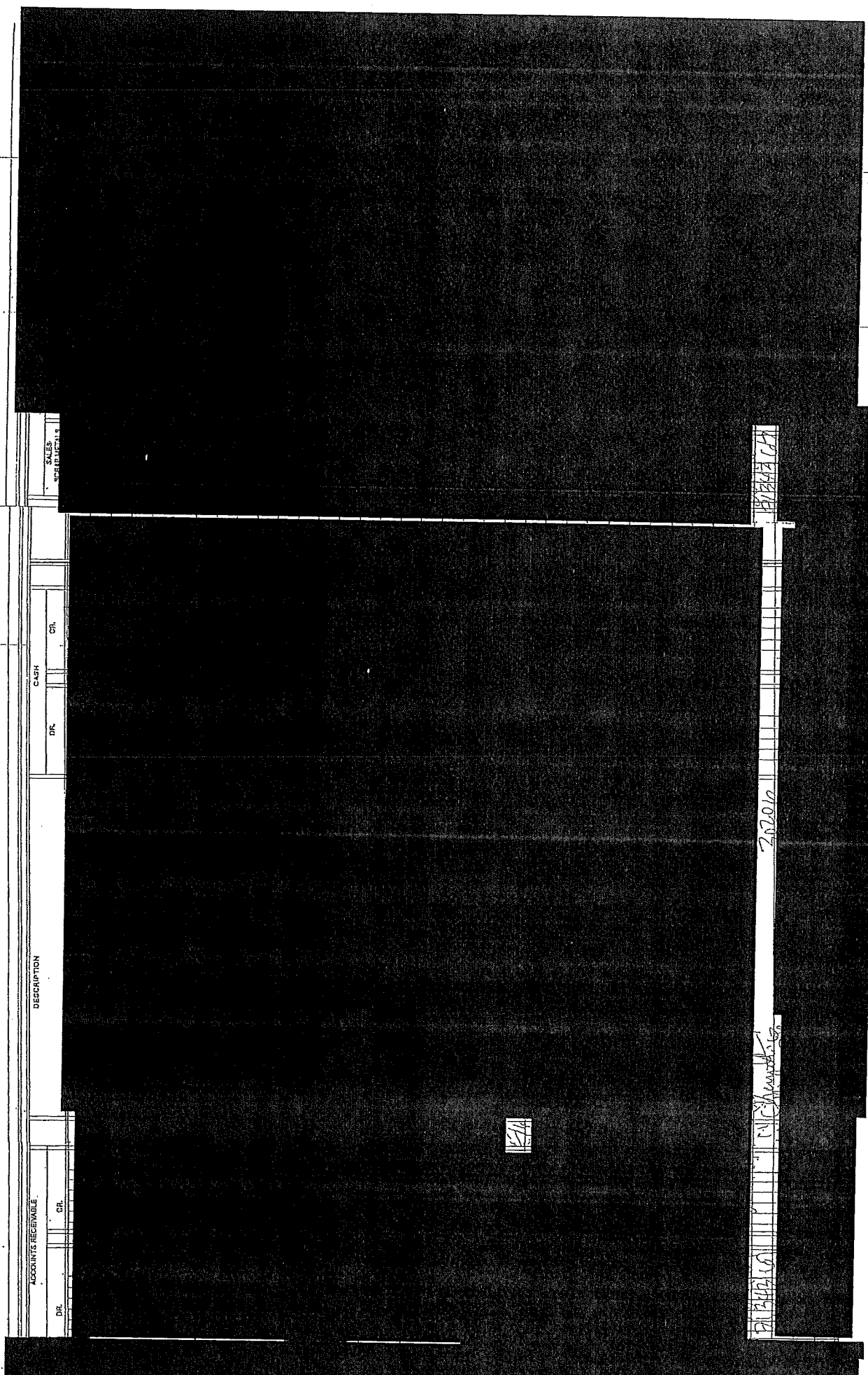
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SALES
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SALES
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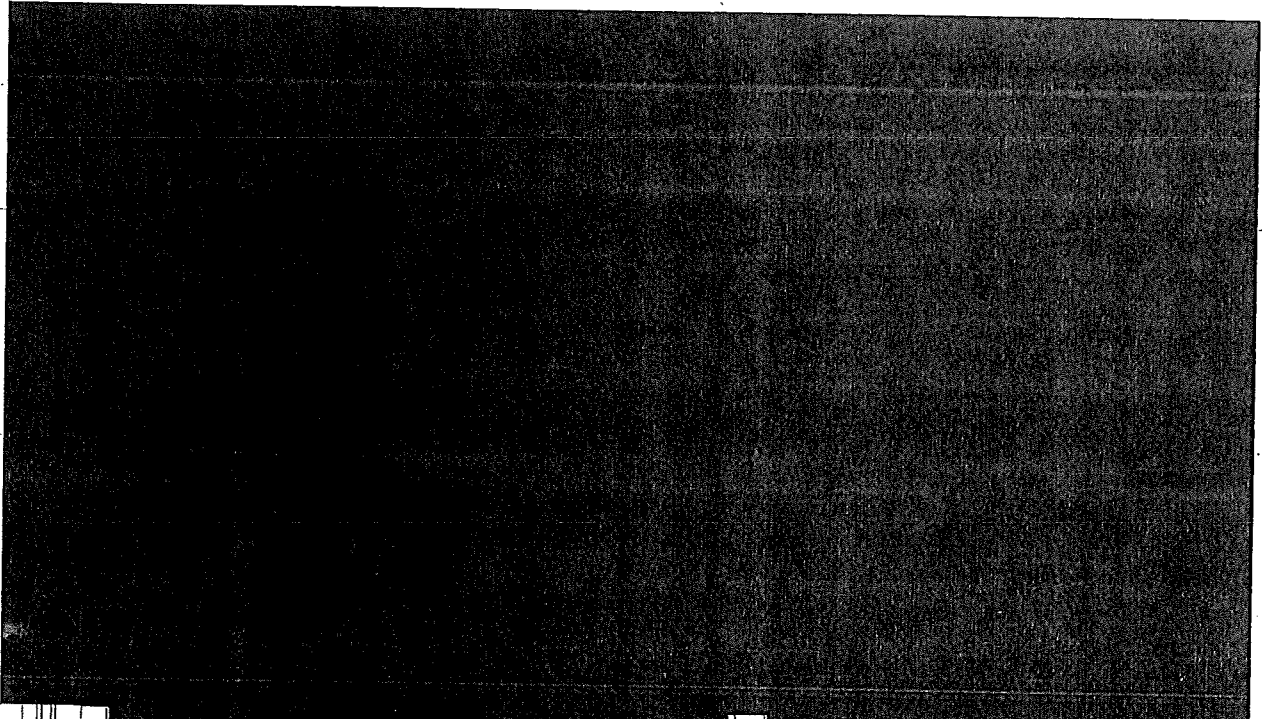
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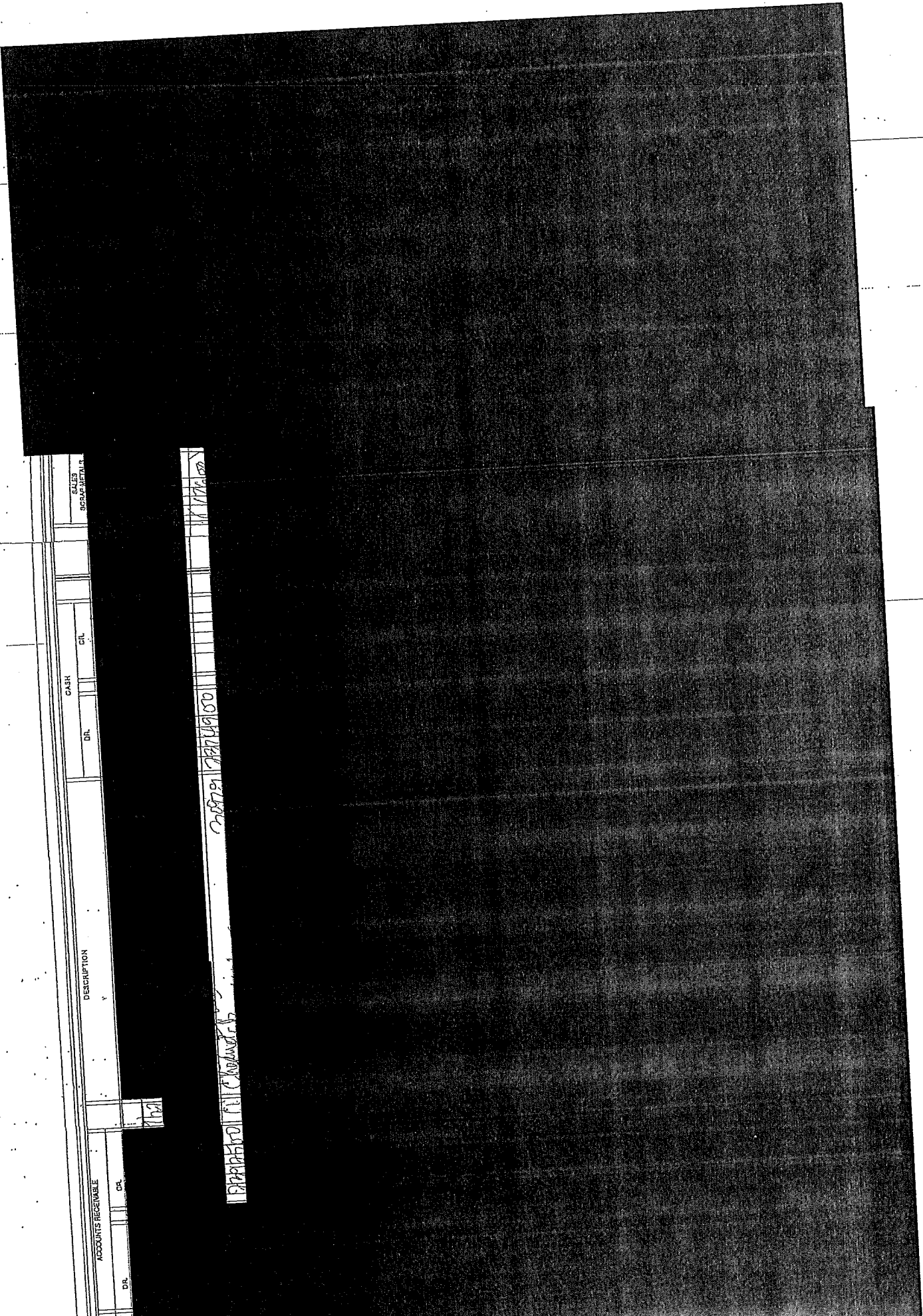


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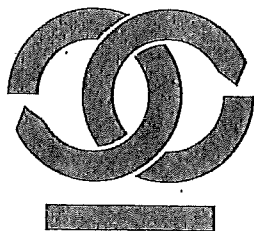
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DOCUMENTS PROVIDED IN RESPONSE TO

EPA'S REQUESTS NO. 10(d) & 11(a)

CONTROLLED DOCUMENT



**Institute of Scrap
Recycling
Industries, Inc.**

Scrap Specifications Circular 1997

**Guidelines for
Nonferrous Scrap
Ferrous Scrap
Glass Cullet
Paper Stock
Plastic Scrap**

**1325 G Street, N.W.
Washington, D.C. 20005**

CONTROLLED DOCUMENT

ISRI
SCRAP SPECIFICATIONS
CIRCULAR 1997

GUIDELINES FOR:

NONFERROUS SCRAP
FERROUS SCRAP
GLASS CULLET
PAPER STOCK
PLASTIC SCRAP

Issued by:

Institute of Scrap Recycling Industries
1325 G Street, N.W.
Washington, D.C. 20005

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PREFACE

The standard specifications included in this Circular are intended to assist members in the buying and selling of their materials and products.

These specifications are derived from many sectors of the metals, paper stock, and plastics industries and are constructed to represent the quality or composition of the materials bought and sold in the industry. The specifications are internationally accepted, and are used throughout the world in metals, paper stock, and plastics trading.

Parties to a transaction may specify particular variations or additions to these specifications, as are suited for their specific transactions and for their individual convenience. Any deviation from the standard specifications, however, should be mutually agreed to, and so stipulated in writing, by the parties to the transactions.

ISRI maintains an Arbitration Service as a means of enabling members to settle differences between themselves, or between one of them and a non-member.

In addition, the "Guidelines for Metals Transactions" contain supplementary information which will aid members in completing their business transactions. It is recommended that these Guidelines be reviewed and that members employ them, in conjunction with the actual specifications, in the conduct of their business.

The specifications of scrap materials are subject to negotiation between buyer and seller. Specifications vary according to the requirements of individual consumers.

CIRCULAR 1997 BECOMES EFFECTIVE JANUARY 17, 1997, AND PREVAILS UNTIL SUPERSEDED.

ISRI
Scrap Specifications Circular 1997

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RULES GOVERNING THE PROCEDURES FOR THE ADDITION, AMENDMENT OR WITHDRAWAL OF SPECIFICATIONS

1.0. *Initiation of Request.* Any person may file a request to add, amend or withdraw a specification by submitting such request in writing to the Executive Director.

2.0. The Executive Director shall refer such request to the Chairman of the Specifications Committee (the "Committee"), with copies to:

A. The Officers;

B. The chairman of any Division and/or Committee which might be affected by the specification.

3.0. *Notice.* Following its receipt, notice of the request shall be inserted in the ISRI FOCUS and a daily national trade publication such as the *American Metal Market Magazine*. Such notice shall state:

A. The date, time and place at which the request will be considered by the Committee;

B. That the proceeding at which the request will be considered shall be open to the public;

C. That interested parties may participate in the proceeding by personal appearance or by submitting written comments.

D. A summary of the specification and the matter to be considered at the hearing.

4.0 *Committee Action.* Following presentation by all interested parties, the Committee shall review the request and:

A. Act upon it immediately, as set forth in Section 4.1; or

B. Refer it to a subcommittee for review and recommendation for action by the full Committee at its next meeting.

4.1. The Committee shall summarize the positions advocated by the various parties interested in the request and recommend to the Board of Directors what action should be taken.

5.0. *Board of Directors Action.* The Board of Directors, at its quarterly meeting at which the report and recommendation of the Committee has been made, shall adopt, amend or reject the recommendation or table it pending further review and recommendation by the Committee.

5.1. Notice of the action taken by the Board shall be given to all interested parties who actively participated in the Committee proceeding and any other persons who have requested in writing notice of the Board's action. Notice of said action also shall be inserted in the ISRI FOCUS following the Board meeting at which said action was taken.

6.0. *Appeal.* On or before thirty days after the date of the notice required in Section 5.1, any party may appeal the decision of the Board by written notice to the Executive Director. Said appeal shall state the reasons

therefor and the requested action to be taken. Notice of said appeal shall be given in accordance with Section 3.0.

6.1. The appeal shall be heard by the Board at its next quarterly meeting following receipt thereof.

6.2. The appellant and all interested parties shall be given at least twenty days notice of the date, time and place of the hearing, and like notice shall be inserted in the ISRI FOCUS at least twenty days prior to the hearing.

6.3. At the hearing, the appellant and any other interested party may appear either in person or by written presentation and state their reasons for the appeal.

6.4. The Board, following said hearing, shall review and act upon the appeal request. Notice of the Board's action shall be given in accordance with Section 5.1.

7.0. *Records.* ISRI shall maintain for not less than five years following the date of termination of the proceedings, records of the original request, summaries of the deliberations and recommendations of the Committee, action of the Board, summaries of the appeal and final decision, if any, of the Board, together with the positions of interested parties, copies of notices sent to interested parties and inserted in the ISRI FOCUS and national trade publications, written statements, and the reasons for recommendation and final action by the Committee and the Board.

7.1. Said records shall be available for review by the public upon reasonable notice.

ISRI ARBITRATION SERVICE

ISRI has established an arbitration service as a means to enable members to utilize arbitration to resolve disputes.

ISRI arbitration is a voluntary procedure, and must be agreed upon by both parties in the dispute. The arbitration procedure can only be initiated by a member of the Association. It is not required that both parties to the dispute be ISRI members.

The complete procedure for arbitration is set forth in ISRI's "Rules for Arbitration," which are available from Association Headquarters in Washington, DC. The rules contain the necessary form which must be completed to initiate arbitration. ISRI treats all filings, awards and proceedings as confidential.

The rules are highlighted below:

1. Any member of the Association may propose arbitration in a dispute with another member or non-member. Both parties must agree to the arbitration by signing a "Submission to Arbitrate" form and agreeing to abide by the applicable Arbitration Rules.
2. A Panel of Arbitrators has been established by the Association. The arbitrators serve without compensation, except for reasonable expenses. The arbitration parties must draw their arbitrators from this Panel. A maximum of three arbitrators issued in any proceeding; the parties are encouraged to use a single arbitrator.
3. There is a specific schedule of fees listed in the "Rules of Arbitration." Each party must deposit with the Association in advance \$500 plus \$500 for each arbitrator. The total deposit for *each* party thus is either \$1,000 or \$2,000, depending on whether one arbitrator is to be used or three. A portion of the fee is refundable if not required to defray arbitrators' costs. The arbitrators may require the losing party to reimburse the prevailing party for its share of these costs.
4. The arbitration procedure usually includes a hearing, at which time the parties involved are required to appear, present their respective cases, and be available for questioning by the arbitrators. All physical evidence (contracts, correspondence, relevant comments, etc.) may be required to be submitted in advance to the arbitrators. A party in the arbitration may be accompanied by counsel, but must inform the other party in advance and receive permission from the arbitrators. Witnesses may also be called to an arbitration hearing. There is also an optional procedure for conducting the arbitration without an oral hearing.
5. An award by the arbitrators will be made promptly, within twenty days after hearings have been completed or final briefs submitted. The award is made in writing, and it is certified.
6. The Rules state that the parties to the dispute shall be deemed to have consented that a judgment upon the award be entered in any court having jurisdiction over an action to enforce the award.

Members who wish to provide an automatic basis for the settlement of any disputes arising from a transaction are encouraged to provide in their contracts that the ISRI Arbitration Procedure shall prevail in the event of any ensuing controversy, and that each party will take all necessary steps to initiate such arbitration. Members are urged to obtain and carefully read the "Rules for Arbitration" before proceeding.

Scrap Specifications Circular 1997

Guidelines for Nonferrous Scrap: NF-97



NONFERROUS SCRAP

Note: When the individual scrap grades in this Circular, denoted by the various code words, are used, an agreement between parties is also bound by the terms of "Apple" as it appears below, unless the terms and conditions of a specific contract provide otherwise, in which case the specific contractual provisions shall govern.

ISRI
Code
Word

Item

Apple—Nonferrous Terms

- a. Delivery of more or less of the specified quantity up to 3 per cent is permissible.
- b. A ton shall be understood to be 2000 pounds, unless otherwise specified.
- c. If any portion of the goods covered by a contract are unshipped or undelivered within the time specified in a contract, then that portion is subject to cancellation by the buyer, and/or the buyer has the right to hold the seller responsible for substantiated damages.

If, because of embargo and/or other conditions of force majeure, a delivery or shipment cannot be made by the time specified, the contract shall remain valid and shall be completed promptly upon lifting of the embargo, and/or conditions of force majeure and the terms of said contract shall not be changed.

- d. If for any portion of a contract the buyer fails in a timely manner to open a Letter of Credit, and/or fails to provide proper conveyance and/or shipping instructions as specified in the contract, then that portion is subject to cancellation by the seller and/or the seller has the right to hold the buyer responsible for substantiated damages.

If, because of embargo and/or other conditions of force majeure, a delivery or shipment cannot be made by the time specified, the contract shall remain valid and shall be completed promptly upon lifting of the embargo, and/or conditions of force majeure and the terms of said contract shall not be changed.

- e. If a significant weight or quality difference is apparent, the seller should be notified promptly and, if requested, another weight or quality determination should be taken. Seller and/or buyer should be given the opportunity to appoint an independent surveyor or a representative to verify weights and/or quality.

For purposes of this section, the meaning of the word "significant" shall be determined by agree-

ISRI
Code
Word

Item

ment between buyer and seller, depending on the commodities and their values.

- f. If it is mutually determined that goods delivered do not conform to the description specified in the contract, then the shipment is subject to rejection or downgrade.

Disposition of, replacement of, and/or financial adjustment for rejected material shall be subjected to mutual agreement between buyer and seller. Seller is responsible for freight costs.

Buyer is expected, however, to exert every effort to limit rejections only to that portion of the shipment which is unsortable and to return the rejected portion promptly upon request, if government regulations permit.

Barley—No. 1 COPPER WIRE

Shall consist of No. 1 bare, uncoated, unalloyed copper wire, not smaller than No. 16 B & S wire gauge. Green copper wire and hydraulically compacted material to be subject to agreement between buyer and seller.

Berry—No. 1 COPPER WIRE

Shall consist of clean, untinned, uncoated, unalloyed copper wire and cable, not smaller than No. 16 B & S wire gauge, free of burnt wire which is brittle. Hydraulically briquetted copper subject to agreement.

ISRI
Code
Word

Item

Birch—No. 2 COPPER WIRE

Shall consist of miscellaneous, unalloyed copper wire having a nominal 96% copper content (minimum 94%) as determined by electrolytic assay. Should be free of the following: Excessively leaded, tinned, soldered copper wire; brass and bronze wire; excessive oil content, iron, and non-metallics; copper wire from burning, containing insulation; hair wire; burnt wire which is brittle; and should be reasonably free of ash. Hydraulically briquetted copper subject to agreement.

Candy—No. 1 HEAVY COPPER

Shall consist of clean, unalloyed, uncoated copper clippings, punchings, bus bars, commutator segments, and wire not less than $\frac{1}{16}$ of an inch thick, free of burnt wire which is brittle; but may include clean copper tubing. Hydraulically briquetted copper subject to agreement.

Cliff—No. 2 COPPER

Shall consist of miscellaneous, unalloyed copper scrap having a nominal 96% copper content (minimum 94%) as determined by electrolytic assay. Should be free of the following: Excessively leaded, tinned, soldered copper scrap; brasses and bronzes; excessive oil content, iron and non-metallics; copper tubing with other than copper connections or with sediment; copper wire from burning, containing insulation; hair wire; burnt wire which is brittle; and should be reasonably free of ash. Hydraulically briquetted copper subject to agreement.

Clove—No. 1 COPPER WIRE NODULES

Shall consist of No. 1 bare, uncoated, unalloyed copper wire scrap nodules, chopped or shredded, free of tin, lead, zinc, aluminum, iron, other metallic impurities, insulation, and other foreign contamination. Minimum copper 99%. Gauge smaller than No. 16 B & S wire and hydraulically compacted material subject to agreement between buyer and seller.

Cobra—No. 2 COPPER WIRE NODULES

Shall consist of No. 2 unalloyed copper wire scrap nodules, chopped or shredded, minimum 97% copper. Maximum metal impurities not to exceed 0.50% aluminum and 1% each of other metals or insulation. Hydraulically compacted material subject to agreement between buyer and seller.

Cocoa—COPPER WIRE NODULES

Shall consist of unalloyed copper wire scrap nodules, chopped or shredded, minimum 99% copper. Shall be free of excessive insulation and other non-metallics. Maximum metal impurities as follows:

Aluminum	—	.05%
Tin	—	.25%
Nickel	—	.05%
Antimony	—	.01%
Iron	—	.05%

ISRI
Code
Word

Item

Hydraulically compacted material subject to agreement between buyer and seller.

Dream—LIGHT COPPER

Shall consist of miscellaneous, unalloyed copper scrap having a nominal 92% copper content (minimum 88%) as determined by electrolytic assay and shall consist of sheet copper, gutters, downspouts, kettles, boilers, and similar scrap. Should be free of the following: Burnt hair wire; copper clad; plating racks; grindings; copper wire from burning, containing insulation; radiators, fire extinguishers; refrigerator units; electrotpe shells; screening; excessively leaded, tinned, soldered scrap; brasses and bronzes; excessive oil, iron and non-metallics; and should be reasonably free of ash. Hydraulically briquetted copper subject to agreement. Any items excluded in this grade are also excluded in the higher grades above.

Drink—REFINERY BRASS

Shall contain a minimum of 61.3% copper and maximum 5% iron and to consist of brass and bronze solids and turnings, and alloyed and contaminated copper scrap. Shall be free of insulated wire, grindings, electrotpe shells and non-metallics. Hydraulically briquetted material subject to agreement.

Drove—COPPER-BEARING SCRAP

Shall consist of miscellaneous copper-containing skimmings, grindings, ashes, iron brass and copper, residues and slags. Free of insulated wires; copper chlorides; unprepared tangled material; large motors; pyrophoric material; asbestos brake linings; furnace bottoms; high lead materials; graphite crucibles; and noxious and explosive materials. Fine powdered material by agreement. Hydraulically briquetted material subject to agreement.

Druid—INSULATED COPPER WIRE SCRAP

Shall consist of copper wire scrap with various types of insulation. To be sold on a sample or recovery basis, subject to agreement between buyer and seller.

ISRI
Code
Word

Item

Ebony—COMPOSITION OR RED BRASS

Shall consist of red brass scrap, valves, machinery bearings and other machinery parts, including miscellaneous castings made of copper, tin, zinc, and/or lead. Should be free of semi-red brass castings (78% to 81% copper); railroad car boxes and other similar high-lead alloys; cocks and faucets; closed water meters; gates; pot pieces; ingots and burned brass; aluminum, silicon, and manganese bronzes; iron and non-metallics. No piece to measure more than 12" over any one part or weigh over 100 lbs.

Enerv—RED BRASS COMPOSITION TURNINGS

Shall consist of turnings from red brass composition material and should be sold subject to sample or analysis.

Elder—GENUINE BABBITT-LINED BRASS BUSHINGS

Shall consist of red brass bushings and bearings from automobiles and other machinery, shall contain not less than 12% high tin base babbitt, and shall be free of iron-backed bearings.

Eland—HIGH GRADE—LOW LEAD BRONZE SOLIDS

It is recommended these materials be sold by analysis.

Elias—HIGH LEAD BRONZE SOLIDS AND BORINGS

It is recommended that these materials be sold on sample or analysis.

Engel—MACHINERY OR HARD BRASS SOLIDS

Shall have a copper content of not less than 75%, a tin content of not less than 6%, and a lead content of not less than 6%—nor more than 11%, and total impurities, exclusive of zinc, antimony, and nickel of not more than 0.75%; the antimony content not to exceed 0.50%. Shall be free of lined and unlined standard red car boxes.

Erin—MACHINERY OR HARD BRASS BORINGS

Shall have a copper content of not less than 75%, a tin content of not less than 6%, and a lead content of not less than 6%—nor more than 11%, and the total impurities, exclusive of zinc, antimony, and nickel of not more than 0.75%, the antimony content not to exceed 0.50%.

**Fence—UNLINED STANDARD RED CAR BOXES
(CLEAN JOURNALS)**

Shall consist of standard unlined and/or sweated railroad boxes and unlined and/or sweated car journal bearings, free of yellow boxes and iron-backed boxes.

**Ferry—LINED STANDARD RED CAR BOXES
(LINED JOURNALS)**

Shall consist of standard babbitt-lined railroad boxes and/or babbitt-lined car journal bearings, free of yellow boxes and iron-backed boxes.

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Item

Grape—COCKS AND FAUCETS

Shall consist of mixed clean red and yellow brass, including chrome or nickel-plated, free of gas cocks, beer faucets, and aluminum and zinc base die cast material, and to contain a minimum of 35% semi-red.

Honey—YELLOW BRASS SCRAP

Shall consist of brass castings, rolled brass, rod brass, tubing and miscellaneous yellow brasses, including plated brass. Must be free of manganese-bronze, aluminum-bronze, unsweated radiators or radiator parts, iron, excessively dirty and corroded materials.

Ivory—YELLOW BRASS CASTINGS

Shall consist of yellow brass castings in crucible shape, no piece to measure more than 12 inches over any one part; and shall be free of brass forgings, silicon bronze, aluminum bronze and manganese bronze, and not to contain more than 15% nickel plated material.

Label—NEW BRASS CLIPPINGS

Shall consist of the cuttings of new unleaded yellow brass sheet or plate, to be clean and free from foreign substances and not to contain more than 10% of clean brass punchings under 1/4 inch. To be free of Muntz metal and naval brass.

Lace—BRASS SHELL CASES WITHOUT PRIMERS

Shall consist of clean fired 70/30 brass shell cases free of primers and any other foreign material.

Lady—BRASS SHELL CASES WITH PRIMERS

Shall consist of clean fired 70/30 brass shell cases containing the brass primers and which contain no other foreign material.

**Lake—BRASS SMALL ARMS AND RIFLE SHELLS,
CLEAN FIRED**

Shall consist of clean fired 70/30 brass shells free of bullets, iron and any other foreign material.

**Lamb—BRASS SMALL ARMS AND RIFLE SHELLS,
CLEAN MUFFLED (POPPED)**

Shall consist of clean muffled (popped) 70/30 brass shells free of bullets, iron and any other foreign material.

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Item

Lark—YELLOW BRASS PRIMER

Shall consist of clean yellow brass primers, burnt or unburnt. Free of iron, excessive dirt, corrosion and any other foreign material.

Maize—MIXED NEW NICKEL SILVER CLIPPINGS

Shall consist of one or more nickel silver alloys and the range of nickel content to be specified, free of chrome or any other plating material. Leaded nickel silver clippings should be packed and sold separately. Not to contain more than 10% of clean punchings under 1/4 inch.

Major—NEW NICKEL SILVER CLIPPINGS AND SOLIDS

Shall consist of new, clean nickel silver clippings, plate, rod and forgings, and other rolled shapes, free of chrome or any other plating material. Must be sold on nickel content specifications such as 10%—12%—15%—18%—20%. Leaded nickel silver clippings should be packed and sold separately. A description as to its physical characteristics should be made in offering all nickel silver material.

Malar—NEW SEGREGATED NICKEL SILVER CLIPPINGS

Shall consist of one specified nickel silver alloy. Not to contain more than 10% of clean punchings under 1/4 inch.

Malic—OLD NICKEL SILVER

Shall consist of old nickel silver sheet, pipe, rod, tubes, wire, screen, soldered or unsoldered. Must not be trimmed seams alone and it is also to be free of foreign substances, iron rimmed material and other metals.

Melon—BRASS PIPE

Shall consist of brass pipe free of plated and soldered materials or pipes with cast brass connections. To be sound, clean pipes free of sediment and condenser tubes.

Naggy—NICKEL SILVER CASTINGS

To be packed and sold separately.

Niece—NICKEL SILVER TURNINGS

To be sold by sample or analysis.

Night—YELLOW BRASS ROD TURNINGS

Shall consist of strictly rod turnings, free of aluminum, manganese, composition, Tobin and Muntz metal turnings; not to contain over 3% free iron, oil or other moisture; to be free of grindings and babbitts; to contain not more than 0.30% tin and not more than 0.15% alloyed iron.

Noble—NEW YELLOW BRASS ROD ENDS

Shall consist of new, clean rod ends from free turning brass rods or forging rods, not to contain more than 0.30% tin and not more than 0.15% alloyed iron. To be free of Muntz metal and naval brass or any other alloys. To be in pieces not larger than 12" and free of foreign matter.

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Nomad—YELLOW BRASS TURNINGS

Shall consist of yellow brass turnings, free of aluminum, manganese and composition turnings, not to contain over 3% of free iron, oil or other moisture; to be free of grindings and babbitts. To avoid dispute, to be sold subject to sample or analysis.

Ocean—MIXED UNSWEATED AUTO RADIATORS

Shall consist of mixed automobile radiators, to be free of aluminum radiators, and iron finned radiators. All radiators to be subject to deduction of actual iron. The tonnage specification should cover the gross weight of the radiators, unless otherwise specified.

Pales—ADMIRALTY BRASS CONDENSER TUBES

Shall consist of clean sound Admiralty condenser tubing which may be plated or unplated, free of nickel alloy, aluminum alloy, and corroded material.

Pallu—ALUMINUM BRASS CONDENSER TUBES

Shall consist of clean sound condenser tubing which may be plated or unplated, free of nickel alloy and corroded material.

Palms—MUNTZ METAL TUBES

Shall consist of clean sound Muntz metal tubing which may be plated or unplated, free of nickel alloy, aluminum alloy, and corroded material.

Parch—MANGANESE BRONZE SOLIDS

Shall have a copper content of not less than 55%, a lead content of not more than 1%, and shall be free of aluminum bronze and silicon bronze.

Racks—SCRAP LEAD—SOFT

Shall consist of clean soft scrap lead, free of other materials such as drosses, battery plates, lead covered cable, hard lead, collapsible tubes, foil, type metals, aluminum, zinc, iron and brass fittings, dirty chemical lead and radioactive materials. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

Radio—MIXED HARD/SOFT SCRAP LEAD

Shall consist of clean lead solids, free of other materials, such as drosses, battery plates, lead covered cable, collapsible tubes, type metals, aluminum, zinc, iron and brass fittings, dirty chemical lead and radioactive materials. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

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Rails—LEAD BATTERY PLATES

Specify whether automotive, industrial or mixed. Also whether they are groups or loose. The only other metallic that might be included could be lead connectors. To be free of non-metallics, i.e., plastic or rubber, with the exception that separators may be included. Material to be dry. May be bought on an assay basis or a flat price. Submarine plates subject to negotiation. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

Rains—SCRAP DRAINED/DRY WHOLE INTACT LEAD BATTERIES

To be free of any liquid. Cases to be either plastic or rubber and be complete including caps. Non-lead (ni-cad, ni-fe, carboneaire, etc.) not acceptable. Industrial, steel cased, aircraft (aluminum cased) and partial, cracked or broken batteries and batteries without caps subject to special agreement. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

Rakes—BATTERY LUGS

To be free of scrap lead, wheel weights, battery plates, rubber and/or plastic case material and other foreign material. A minimum of 97% metallic content is required. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

Ranks—PEWTER

Shall consist of tableware and soda-fountain boxes but should contain a minimum of 84% tin. Siphon tops to be accounted for separately. Material must be free of brass, zinc, and other foreign metals.

Ranch—BLOCK TIN

Block Tin must assay minimum of 98% tin, and to be free of liquids, solder, and brass connections, pewter, pumps, pot pieces, dirt.

Raves—HIGH TIN BASE BABBITT

Shall contain a minimum of 78% tin and be free of brassy or zincy metals.

Relay—LEAD COVERED COPPER CABLE

Free of armored covered cable, and foreign material.

Rents—LEAD DROSS

Should be clean and reasonably free of other materials such as iron, dirt, harmful chemicals or other metals. To be free of radioactive materials, aluminum and zinc. May be bought on an assay basis or as agreed to by buyer and seller. Other metals present such as antimony, tin, etc., to be accounted for as agreed between buyer and seller. Material to be readily dumped from drums. An extra charge may be assessed if material has to be mechanically removed. Review packaging specification and regulatory status pertaining to shipping with buyer prior to sale.

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Rink—SCRAP WET WHOLE INTACT LEAD BATTERIES

Consisting of SLI (starting, lighting & ignitor automotive, truck, 8-D and commercial golf cart and marine-type batteries. Cases to be either plastic rubber and to be complete. Non-lead (i.e., ni-cad, ni-fe, carboneaire, etc.) not acceptable. Other types i. aircraft (aluminum) gel-cel, lawnmower, etc., or partial, cracked or broken batteries or batteries without caps and the amount of liquid content and any variations to the specification subject to special agreement. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

Rono—SCRAP INDUSTRIAL INTACT LEAD CELLS

Consisting of plates enclosed by some form of complete plastic case. Partial, cracked or broken cells without caps and the amount of liquid content and any variations to the specification subject to special agreement. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

Roper—SCRAP WHOLE INTACT INDUSTRIAL LEAD BATTERIES

Consisting of bus, diesel, locomotive, telephone and or steel cased batteries. Submarine batteries subject to negotiation. Partial, cracked, broken or batteries without caps and the amount of liquid content and any variations to the specification subject to special agreement. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

Ropes—WHEEL WEIGHTS

To consist of lead tire balances with or without iron clips. Not to include scrap lead, lugs or plates unless specifically agreed to. To be free of foreign material. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

Roses—MIXED COMMON BABBITT

Shall consist of lead base bearing metal containing not less than 8% tin, free from Allens metal, ornamental, antimonial and type metal. Must be free from all zincy and excessive copper in the alloy.

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Saves—OLD ZINC DIE CAST SCRAP

Shall consist of miscellaneous old zinc base die castings, with or without iron and other foreign attachments. Must be free of borings, turnings, dross pieces, chunks, melted pieces and skimmings. All unmeltables, dirt, foreign attachments, and volatile substances (such as rubber, cork, plastic, grease, etc.) are deductible. Material containing in excess of 30% iron will not constitute good delivery.

Scabs—NEW ZINC DIE CAST SCRAP

Shall consist of new or unused, clean, zinc base die castings. Castings to be unplated, unpainted, and free from corrosion.

Scope—NEW PLATED ZINC DIE CAST SCRAP

Shall consist of new or unused clean, plated zinc base die castings, free from corrosion.

Scoot—ZINC DIE CAST AUTOMOTIVE GRILLES

Shall consist of clean, old or used zinc base die cast automotive grilles, free from soldered material. All foreign attachments and extraneous materials are deductible.

Score—OLD SCRAP ZINC

Shall consist of clean dry scrap zinc, such as sheets, jar lids, clean unalloyed castings and anti-corrosion plates. Borings and turnings are not acceptable. Material must not be excessively corroded or oxidized. All foreign attachments and extraneous materials are deductible.

Screen—NEW ZINC CLIPPINGS.

Shall consist of any new pure zinc sheets or stampings free from corrosion. To contain no foreign material or attachments. Printers zinc, such as engravers zinc, lithograph sheets and addressograph plates subject to special arrangements. Printers zinc to be free of routings.

Scull—ZINC DIE CAST SLABS OR PIGS

Shall consist of melted zinc base die cast materials, in smooth clean solid slabs or pigs. Material to be free from drosses and to contain a minimum zinc content of 90%. To contain a maximum of 0.1% nickel and maximum of 1% lead. Blocks are acceptable upon mutual agreement.

Scribe—CRUSHED CLEAN SORTED FRAGMENTIZERS DIE CAST SCRAP, AS PRODUCED FROM AUTOMOBILE FRAGMENTIZERS

To be clean, free of dirt, oil, glass, rubber, and trash. To contain a maximum of 5% unmeltables such as free iron, copper, aluminum and other metals.

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Scroll—UNSORTED ZINC DIE CAST SCRAP

Produced from automobile fragmentizers. Material to contain about 55% zinc-bearing scrap. Other nonferrous metals such as aluminum, stainless steel, red metal, etc., to be about 40%. Insulated copper wire about 1%. Trash, dirt, glass, rubber, oil, iron, not to exceed 5%. Any variations to be sold by special arrangement between buyer and seller.

Scrub—HOT DIP GALVANIZERS SLAB ZINC DROSS (Batch Process)

Shall consist only of galvanizers unsweated zinc dross in slab form from hot dip galvanizing (Batch Process) with a minimum zinc content of 92% and shall be free of skimmings and tramp iron. Broken pieces under 2" in diameter shall not exceed 10% of the weight of each shipment. Slabs shall not weigh over 100 pounds each. Heavier pieces acceptable upon mutual agreement between buyer and seller. Material from continuous galvanizing operation is not acceptable. Blocks are acceptable upon mutual agreement.

Seal—CONTINUOUS LINE GALVANIZING SLAB ZINC TOP DROSS

Shall consist of unsweated zinc dross removed from the top of a continuous line galvanizing bath, in slab form not weighing in excess of 100 pounds each, with a minimum zinc content of 90%. Heavier pieces acceptable upon mutual agreement between buyer and seller. Shall be free of skimmings. Broken pieces under 2" in diameter shall not exceed 10% of the weight of each shipment.

Seam—CONTINUOUS LINE GALVANIZING SLAB ZINC BOTTOM DROSS

Shall consist of unsweated zinc dross removed from the bottom of a continuous line galvanizing bath, in slab form not weighing in excess of 100 pounds each, with a minimum zinc content of 92%. Heavier pieces acceptable upon mutual agreement between buyer and seller. Shall be free of skimmings. Broken pieces under 2" in diameter shall not exceed 10% of the weight of each shipment.

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Shelf—PRIME ZINC DIE CAST DROSS

Shall consist of metal skimmed from the top of pot of molten zinc die cast metal. Must be unsweated, unfluxed, shiny, smooth, metallic and free from corrosion or oxidation. Should be poured in molds or in small mounds weighing not over 75 pounds each. Zinc shall be minimum of 85%.

Tablet—CLEAN ALUMINUM LITHOGRAPHIC SHEETS

To consist of alloys 1100 and/or 3003, to be free of paper, plastic, excessively inked sheets and any other contaminants. Minimum of three inches in any direction.

Tabloid—NEW, CLEAN ALUMINUM LITHOGRAPHIC SHEETS

To consist of alloys 1100 and/or 3003, uncoated, unpainted, to be free of paper, plastic, ink, and any other contaminants. Minimum of three inches in any direction.

Taboo—MIXED LOW COPPER ALUMINUM CLIPPINGS AND SOLIDS

Shall consist of new, clean, uncoated and unpainted low copper aluminum scrap of two or more alloys and to be free of 7000 series, foil, hair wire, wire screen, dirt, and other foreign substances. Grease and oil not to total more than 1%. Also free from punchings less than 1/2" in size. New can stock subject to arrangement between buyer and seller.

Taint/Tabor—CLEAN MIXED OLD ALLOY SHEET ALUMINUM

Shall consist of clean old alloy aluminum sheet and sheet utensil scrap of two or more alloys, free of 7000 alloy series, foil, venetian blinds, castings, hair wire, screen wire, food or beverage containers, pie plates, hub caps, radiator shells, airplane sheet foil, oil cans, bottle caps, plastic, dirt, and other foreign substances. Oil and grease not to total more than 1%. Up to 10% painted sheet, siding, and awnings permitted.

Take—NEW ALUMINUM CAN STOCK

Shall consist new low copper aluminum can stock and clippings, clean, lithographed or not lithographed, and coated with clear lacquer but free of lids with sealers, iron, dirt and other foreign contamination. Oil not to exceed 1%.

Talap—OLD CAN STOCK

Shall consist of clean old aluminum cans, decorated or clear, free of iron, dirt, liquid and/or other foreign contamination.

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Talcred—SHREDDED ALUMINUM USED BEVERAGE CAN (UBC) SCRAP

Shall have a density of 12 to 17 pounds per cubic foot. Material should contain maximum 5% fines less than 4 mesh (U.S. standard screen size) and no more than 2.5% fines less than 12 mesh (U.S. standard screen size). Must be magnetically separated material and free of steel, lead, bottle caps, plastic cans and other plastics, glass, wood, dirt, grease, trash, and other foreign substances. Any free lead is basis for rejection. Any and all aluminum items, other than used beverage cans, are not acceptable. Items not covered in the specification, including moisture, are subject to special arrangement between buyer and seller.

Taldack—DENSIFIED ALUMINUM USED BEVERAGE CAN (UBC) SCRAP

Shall have a biscuit density of 35 to 45 pounds per cubic foot. Each biscuit not to exceed 60 pounds. Nominal biscuit size range from 10" to 13" x 10 1/4" to 20" x 6 1/4" to 9". Shall have banding slots in both directions to facilitate bundle banding. All biscuits comprising a bundle must be of uniform size. Size: Bundle range dimensions acceptable are 41" to 44" x 51" to 54" x 54" to 56" (height). The only acceptable tying method shall be as follows: Using minimum 5/8" wide by .020" thick steel straps the bundles are to be banded with one vertical band per row and a minimum of two girth (horizontal) bands per bundle. Use of skids and/or support sheets of any material is not acceptable. Must be magnetically separated material and free of steel, lead, bottle caps, plastic cans and other plastic, glass, wood, dirt, grease, trash, and other foreign substances. Any free lead is basis for rejection. Any and all aluminum items, other than used beverage cans, are not acceptable. Items not covered in the specification, including moisture, and any variations in the specification are subject to special arrangement between buyer and seller.

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Item

**Taldon—BALED ALUMINUM USED BEVERAGE CAN
(UBC) SCRAP**

Shall have a minimum density of 14 lbs. per cubic foot, and a maximum density of 17 lbs. per cubic foot for unflattened UBC and 22 lbs. per cubic foot for flattened UBC. Size: minimum 30 cubic feet, with bale range dimensions of 24" to 40" by 30" to 52" by 40" to 84". The only acceptable tying method shall be as follows: four to six $\frac{5}{8}$ " x .020" steel bands, or six to ten #13 gauge steel wires (aluminum bands or wires are acceptable in equivalent strength and number). Use of skids and/or support sheets of any material are not acceptable. Must be magnetically separated material and free of steel, lead, bottle caps, plastic cans and other plastics, glass, wood, dirt, grease, trash and other foreign substances. Any free lead is basis for rejection. Any and all aluminum items, other than used beverage cans, are not acceptable. Items not covered in the specification are subject to special arrangement between buyer and seller.

**Taldork—BRIQUETTED ALUMINUM USED BEVERAGE CAN
(UBC) SCRAP**

Shall have a briquette density of 50 pounds per cubic foot minimum. Nominal briquette size shall range from 12 to 24 inches x 12 to 24 inches in uniform profile with a variable length of 8 inches minimum and 48 inches maximum. Briquettes shall be bundled or stacked on skids and secured with a minimum of one vertical band per row and a minimum of one girth band per horizontal layer. Briquettes not to overhang pallet. Total package height shall be 48 inches maximum. Banding shall be at least $\frac{5}{8}$ " wide by .020" thick steel strapping or equivalent strength. The weight of any bundle shall not exceed 4000 pounds. Material must be magnetically separated and free of steel, plastic, glass, dirt and all other foreign substances. Any and all aluminum items, other than UBC are unacceptable. Any free lead is a basis for rejection. Items not covered in the specification, including moisture, and any variation in the specification are subject to special arrangement between buyer and seller.

Tale—PAINTED SIDING

Shall consist of clean, low copper aluminum siding scrap, painted one or two sides, free of iron, dirt, corrosion, fiber backing or other types of foreign contamination.

Talent—COATED SCRAP

Shall consist of awnings, venetian blinds, vinyl, plastic, etc. Shall be subject to special arrangements between buyers and sellers.

Talk—ALUMINUM COPPER RADIATORS

Shall consist of clean aluminum and copper radiators, and/or aluminum fins on copper tubing, free of brass tubing, iron and other foreign contamination.

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Tall—E.C. ALUMINUM NODULES

Shall consist of clean E.C. aluminum, chopped or shredded, free of screening, hair-wire, iron, insulation, copper and other foreign contamination. Must be free of minus 20 mesh material. Must contain 99.45% aluminum content.

Talon—NEW PURE ALUMINUM WIRE AND CABLE

Shall consist of new, clean, unalloyed aluminum wire or cable free from hair wire, wire screen, iron, insulation and any other foreign substance.

Tann—NEW MIXED ALUMINUM WIRE AND CABLE

Shall consist of new, clean unalloyed aluminum wire or cable which may contain up to 10% 6000 series wire and cable free from hair wire, wire screen, iron, insulation and any other foreign substance.

Taste—OLD PURE ALUMINUM WIRE AND CABLE

Shall consist of old, unalloyed aluminum wire and cable containing not over 1% free oxide or dirt and free from hair wire, wire screen, iron, insulation and any other foreign substance.

Tassel—OLD MIXED ALUMINUM WIRE AND CABLE

Shall consist of old, unalloyed aluminum wire and cable which may contain up to 10% 6000 series wire and cable with not over 1% free oxide or dirt and free from hair wire, wire screen, iron, insulation and any other foreign substance.

Tarry—ALUMINUM PISTONS

(a) Clean Aluminum Pistons

Shall consist of clean aluminum pistons to be free from struts, bushings, shafts, iron rings and any other foreign materials. Oil and grease not to exceed 2%.

(b) Aluminum Pistons with Struts

Shall consist of clean whole aluminum pistons with struts to be free from bushings, shafts, iron rings and any other foreign materials. Oil and grease not to exceed 2%.

(c) Irony Aluminum Pistons

Should be sold on recovery basis, or by special arrangements with purchaser.

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Item

Teens—SEGREGATED ALUMINUM BORINGS AND TURNINGS

Shall consist of clean, uncorroded aluminum borings and turnings of one specified alloy only and subject to deductions for fines in excess of 3% through a 20 mesh screen and dirt, free iron, oil, moisture and all other foreign materials. Material containing iron in excess of 10% and/or free magnesium or stainless steel or containing highly flammable cutting compounds will not constitute good delivery.

Telic—MIXED ALUMINUM BORINGS AND TURNINGS

Shall consist of clean, uncorroded aluminum borings and turnings of two or more alloys and subject to deductions for fines in excess of 3% through a 20 mesh screen and dirt, free iron, oil, moisture and all other foreign materials. Material containing iron in excess of 10% and/or free magnesium or stainless steel or containing highly flammable cutting compounds will not constitute good delivery. To avoid dispute should be sold on basis of definite maximum zinc, tin and magnesium content.

Tense—MIXED ALUMINUM CASTINGS

Shall consist of all clean aluminum castings which may contain auto and airplane castings but no ingots, and to be free of iron, dirt, brass, babbitt and any other foreign materials. Oil and grease not to total more than 2%.

Tepid—WRECKED AIRPLANE SHEET ALUMINUM

Should be sold on recovery basis or by special arrangements with purchaser.

Terse—NEW ALUMINUM FOIL

Shall consist of clean, new, pure, uncoated, unalloyed aluminum foil, free from anodized foil, radar foil and chaff, paper, plastics, or any other foreign materials. Hydraulically briquetted material by arrangement only.

Testy—OLD ALUMINUM FOIL

Shall consist of clean, old, pure, uncoated, unalloyed aluminum foil, free from anodized foil, radar foil and chaff, paper, plastics, or any other foreign materials. Hydraulically briquetted material by arrangement only.

Thigh—ALUMINUM GRINDINGS

Should be sold on recovery basis or by special arrangements with purchaser.

Thirl—ALUMINUM DROSSES, SPATTERS, SPILLINGS, SKIMMINGS AND SWEEPINGS

Should be sold on recovery basis or by special arrangements with purchaser.

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Throb—SWEATED ALUMINUM

Shall consist of aluminum scrap which has been sweated or melted into a form or shape such as an ingot, pig or slab for convenience in shipping; to be free from corrosion, drosses or any foreign materials. Should be sold subject to sample or analysis.

Tooth—SEGREGATED NEW ALUMINUM ALLOY CLIPPINGS AND SOLIDS

Shall consist of new, clean, uncoated and unpainted aluminum scrap of one specified aluminum alloy only and to be free of foil, hair, wire, wire screen, dirt, and other foreign substances. Oil and grease not to total more than 1%. Also free from punchings less than 1/2" in size. New can stock subject to arrangement between buyer and seller.

Tough—MIXED NEW ALUMINUM ALLOY CLIPPINGS AND SOLIDS

Shall consist of new, clean, uncoated and unpainted aluminum scrap of two or more alloys free of 700C series and to be free of foil, hair wire, wire screen dirt, and other foreign substances. Oil and grease not to total more than 1%. Also free from punchings less than 1/2" in size. New can stock subject to arrangement between buyer and seller.

Tread—SEGREGATED NEW ALUMINUM CASTINGS, FORGINGS AND EXTRUSIONS

Shall consist of new, clean, uncoated aluminum castings, forgings, and extrusions of one specified alloy only and to be free from sawings, stainless steel, zinc iron, dirt, oil, grease and other foreign substances.

Trump—ALUMINUM AUTO CASTINGS

Shall consist of all clean automobile aluminum castings of sufficient size to be readily identified and to be free from iron, dirt, brass, babbitt bushings, brass bushings, and any other foreign materials. Oil and grease not to total more than 2%.

Twang—INSULATED ALUMINUM WIRE SCRAP

Shall consist of aluminum wire scrap with various types of insulation. To be sold on a sample or recovery basis subject to agreement between buyer and seller.

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Twist—ALUMINUM AIRPLANE CASTINGS

Shall consist of clean aluminum castings from airplanes and to be free from iron, dirt, brass, babbitt bushings, brass bushings, and any other foreign materials. Oil and grease not to total more than 2%.

**Twitch—FRAGMENTIZER ALUMINUM SCRAP
(From Automobile Shredders)**

The material, as received, must be dry and not to contain more than 3% maximum free zinc, 1% maximum free magnesium, and 1.5% maximum free iron and stainless. Not to contain more than a total 5% maximum of non-metallics, of which no more than 1% shall be rubber and plastics. To be free of excessively oxidized material. Any variations to be sold by special arrangement between buyer and seller.

Wafer—MAGNESIUM CLIPS

Shall consist of clean magnesium clips in crucible size, free of copper, aluminum, and zinc flashings and excessive oil and grease. To be free of all foreign attachments.

Walnut—MAGNESIUM SCRAP

Shall consist of magnesium castings, magnesium engine blocks and transmission casings, bomber and car wheels, extrusions, and sheet. Material to be free from brass and copper inserts and all foreign attachments. To be free of anodes, hollow castings and explosives. Percentages of and penalties for dirt, oil, grease, and iron to be subject to agreement between buyer and seller. Excessively large pieces to be negotiated between buyer and seller.

Wine—MAGNESIUM ENGRAVER PLATES

To be free of copper, aluminum, zinc, and electrotype plates. To be clean and free of all foreign attachments. Magnesium plates shipped loose by agreement between buyer and seller.

Wood—MAGNESIUM DOCKBOARDS

Shall consist of clean magnesium dockboard cut or broken to size agreed upon by buyer and seller. To be free of all foreign attachments.

World—MAGNESIUM TURNINGS

It is recommended that these materials be sold by special arrangement between buyer and seller.

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Item

**ZORBA—RECYCLABLE CONCENTRATES OF SHREDDED
MIXED NONFERROUS SCRAP METAL IN PIECES—
DERIVED FROM FRAGMENTIZERS FOR FURTHER
SEPARATION OF CONTAINED MATERIALS**

Shall be made up of a combination of the nonferrous metals: aluminum, copper, lead, magnesium, stainless steel, nickel, tin, and zinc, in elemental or alloyed (solid) form. The percentage of each of these metals within the nonferrous concentrate shall be subject to agreement between buyer and seller, may vary from shredder to shredder and may, in some cases, be zero for a particular metal. Shall be obtained by air separation, flotation, screening, eddy current, other segregation technique(s) or a combination of the same. Shall have passed one or more magnets to reduce or eliminate free iron and/or iron attachments. Shall be free of radioactive material, dross or ash. May be screened to permit description by specific size ranges. May contain high density non-metallics such as rock, glass, rubber, plastic and wood. Items of exclusion, inclusion or limitation not set out in the above specifications, such as moisture and free iron and/or attachments or the presence or absence of other metals, are subject to agreement between buyer and seller. Material to be traded under this guideline shall be identified as ZORBA with a number to follow indicating the estimated percentage nonferrous metal content of the material (e.g. ZORBA 63 - means the material contains approximately 63% nonferrous metal content).

Aroma—NEW NICKEL SCRAP

Shall consist of clean new sheet, plate, bar, tube, and any other wrought nickel scrap solids. Nickel minimum 99%; Cobalt maximum 0.25%; Copper maximum 0.50%. Free of castings, as well as any foreign attachments or other contamination.

Burly—OLD NICKEL SCRAP

Shall consist of old and/or new sheet, plate, bar, tube, and any other wrought nickel scrap solids. Material to contain a minimum of 98% nickel; Copper maximum 0.50%. This grade to be free of castings, soldered, brazed, sweated, or painted material, other metallic coating, foreign attachments, and any other contamination.

Dandy—NEW CUPRO NICKEL CLIPS AND SOLIDS

Shall consist of clean, new, segregated (normally accepted analysis grades) either 70/30, 80/20, or 90/10 cupro nickel tube, pipe, sheet, plate, or other wrought solid forms. Must be free of foreign attachments or any other contamination.

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Daunt—CUPRO NICKEL SOLIDS

Shall consist of old, and/or new, segregated (normally accepted analysis grades either 70/30, 80/20, 90/10 cupro nickel tube, pipe, sheet, plate, or other wrought solid forms. Maximum 2% sediment allowable. Any other forms of cupro nickel solids such as castings, gates, risers, spills, etc., packaged separately, may or may not be included, only upon agreement between buyer and seller. Must be free of foreign attachments and all other contamination. Other particulars concerning physical description, analysis and packaging to be agreed upon between buyer and seller.

Delta—SOLDERED CUPRO NICKEL SOLIDS

Shall consist of segregated (normally accepted analysis grades) either 70/30, 80/20, 90/10 cupro nickel solids, soldered, brazed, or sweated, must be free of trimmed seams and edges and all other contamination.

Decoy—CURPO NICKEL SPINNINGS, TURNINGS, BORINGS

Shall consist of clean segregated (normally accepted analysis grades) either 70/30, 80/20, 90/10 cupro nickel spinnings, turnings, or borings. Particulars concerning physical description, analysis, packaging, to be agreed upon between buyer and seller.

Depth—MISCELLANEOUS NICKEL-COPPER AND NICKEL-COPPER IRON

Shall consist of miscellaneous scrap in which the basic elements, by weight, are nickel and copper, such as copper nickel peelings, plating racks, and hangers, and all nickel and copper in attached or combined form. In all cases, miscellaneous nickel copper scrap should be sold by description and analysis.

Hitch—NEW R-MONEL CLIPPINGS AND SOLIDS

Shall consist of clean, new, R-Monel sheet, plate, bar, rod, tube, pipe, or any other wrought scrap, free of any foreign attachments or any other contamination.

House—NEW MIXED MONEL SOLIDS AND CLIPPINGS

Shall consist of new, clean R and K-Monel solids and clippings. Free of cast material, foreign attachments and all other contamination.

Ideal—OLD MONEL SHEET AND SOLIDS

Shall consist of clean R and K-Monel solids such as sheet, plate, pipe, rods, forgings, screen and wire cloth. Must be free of soldered, brazed, welded, or sweated material, cast material, foreign attachments, and all other contamination.

Indian—K-MONEL SOLIDS

Shall consist of clean K-Monel solids.

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Junto—SOLDERED MONEL SHEET AND SOLIDS

Shall consist of soldered and/or brazed miscellaneous grades of Monel alloys in either wrought or cast form. Must be free of trimmed seams and edges, non-metallic filling, foreign attachments, and all other contamination. Particulars concerning physical description, assay, and packaging to be agreed upon between buyer and seller.

Lemon—MONEL CASTINGS

Shall consist of various types of clean Monel castings, assaying minimum 60% nickel. Must be free of foreign attachments or any other contamination.

Lemur—MONEL TURNINGS

Shall consist of mixed Monel turnings and borings containing a minimum of 60% nickel content, on a dry basis.

Pekoe—200 SERIES STAINLESS STEEL SCRAP SOLIDS

Shall consist of all types of clean AISI Series Stainless Steel Scrap Solids, which contain a maximum of .5% copper, free of foreign attachments and other contamination.

Sabot—STAINLESS STEEL SCRAP

Shall consist of clean 18-8 type stainless steel clips and solids containing a minimum 7% nickel, 16% chrome, and have a maximum of .50% molybdenum, .50% copper, .045% phosphorous, and .03% sulfur, and otherwise free of harmful contaminants. Particulars concerning physical description, grading, additional analysis, and preparation to be agreed upon between buyer and seller.

Ultra—STAINLESS STEEL TURNINGS

Shall consist of clean 18-8 type stainless steel turnings containing a minimum 7% nickel and 16% chrome, and to be free of nonferrous metals, nonmetallics, excessive iron, oil and other contaminants. Particulars concerning physical description, assay, packaging to be agreed upon between buyer and seller.

Vaunt—EDISON BATTERIES

Nickel-iron batteries to be sold free of crates, copper terminal connectors, and excess liquid. Free of nickel cadmium batteries.

IDENTIFICATION CHECK LIST FOR PRECIOUS METALS

This Identification Check List for Precious Metals sets up a general basis for identifying types and grades of precious metals scrap by the scrap processor which will be familiar both to the precious metal refiner and to the plants generating precious metal scrap.

By checking this identification list, the scrap processor gives the refiner a fairly accurate conception of the material he has

on hand and offers a basis for the refiner to quote an estimated price for the material.

Due to the high values and the constantly changing character of precious metal scrap, it is often the practice in the industry to require a sample to be submitted before giving refining schedules.

I. SCRAP SOURCES

REFINED SILVER METAL—99.9 MIN. PERCENT

SILVER BEARING MATERIALS:

Anodes	Jewelry Sweeps
Assemblies—Electrical	Paints—Paste
Batteries	Paper-Reproduction
Silver/Copper	Plated Parts—Electrical—
Silver/Cadmium	Electronic
Silver/Zinc	Plated Serving Pieces
Silver/Magnesium	Plated Utensils
Blanking Scrap—Punchings	Plated Wire
Brazing Alloys	Powders—Granulated
Brushes—Electric Motors	Punchouts
Bullion	Relays—Electrical
Chemical Salts	Resins
Clad Bi-Metal Parts	Silver Lined Bearings—
Coin Silver	Diesel Locomotives
Contacts	and Aircraft
Dental Amalgam	Sludges—Plating and
Film	Precipitates
Industrial X-Ray	Solutions—Plating
Medical X-Ray	Sterling Silver
Lithographic	Tin Lead Alloys—
Photographic Negatives	Contaminated
Filters—Plating	Turnings
Flake—From Hypo Solution	Wave Guides
Recovery Systems	Wiping Rags
Hooks—Plating—Nodules	

REFINED GOLDMETAL—99.5 MIN. PERCENT REFINED GOLD SPONGE—99.5 MIN. PERCENT

GOLD BEARING MATERIALS:

Brazing Alloys	Placer Gold
Cladmetal Parts	Plated Parts—Electrical
Contacts	Plated Wire
Dental Alloys	Powders
Dental Scrap	Printed Circuit Boards
Dental Sweeps and	Printed Circuit Boards
Grindings	with Components
Diodes	Punchouts
Filled Scrap	Resins—Plating
Filters—Plating	Salts—Chemical
Flakes	Sludges—Plating
Flashings	Solutions
Foil	Sponge
Hooks—Plating—Nodules	Tin Lead Alloys—
Jewelry Scrap	Contaminated
Jewelry Sweeps and	Transistors
Grindings	Wiping Rags
Paints and Paste	Wire
Peelings	

REFINED PALLADIUM METAL—99.9 MIN. PERCENT REFINED PALLADIUM SPONGES—99.9 MIN. PERCENT

PALLADIUM BEARING MATERIALS:

Catalysts	Plated Parts
Clad Materials	Powders
Contact Points	Relays—Electrical
Dental Alloys	Salts—Chemical
Dental Scraps	Sludges
Dental Sweeps	Solutions
Jewelry Scrap (Sweeps)	Wire
Paste	

**REFINED PLATINUM METAL—99.9 MIN. PERCENT
REFINED PLATINUM SPONGE—99.9 MIN.
PERCENT**

PLATINUM BEARING MATERIALS:

Catalysts	Jewelry Sweeps
Chemicals	Laboratory Ware
Clad Materials	Magneto Points
Contacts	Powders and Paste
Dental Alloys	Solutions—Plating
Dental Scrap	Spark Plugs—Aircraft
Dental Sweeps, Grindings	Thermocouple Wire
Jewelry Scrap	

SCRAP CONTAINING COMBINATIONS OF PRECIOUS METALS (GOLD, SILVER, PLATINUM AND PALLADIUM)

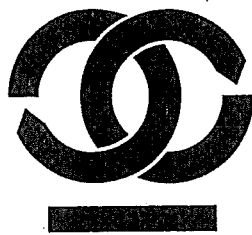
Assemblies—Components	Powders
Bullion	Relays—Electrical
Carbon	Resins
Catalysts	Ribbons
Chemicals	Rings
Chips	Salts
Drillings	Solutions
Electronic Scrap	Sweeps
High Temperature	Telephone Switching
Resistant Alloys	Scrap
Paints	Thick Film
Paste	Wire

II. SCRAP CATEGORIES

- | | |
|---|--|
| <p>A. Solution</p> <ol style="list-style-type: none"> 1. Acid 2. Basic 3. Matrix if known <p>B. Resin</p> <p>C. Sludges</p> <p>D. Burnable Material</p> <ol style="list-style-type: none"> 1. Carbon 2. Filters 3. Film 4. Papers 5. Unprepared Sweeps 6. Others <p>E. Sweeps (Prepared)</p> <p>F. Printed Circuit Board</p> <ol style="list-style-type: none"> 1. Punch Outs 2. Non Assembled 3. Assembled 4. Other <p>G. Glass to metal Tubes, etc.</p> <ol style="list-style-type: none"> 1. Solid Precious Metal Parts 2. Alloyed Metal Parts 3. Plated Metal Parts 4. Ceramics 5. Thick Film 6. Other | <p>H. Metal Scrap</p> <p><i>I. Non Magnetic</i></p> <ol style="list-style-type: none"> 1. Impure Gold 2. Impure Silver 3. Copper Base 4. Aluminum Base 5. Brass Base 6. Bronze Base 7. Molybdenum Base 8. Beryllium Base 9. Lead Base 10. Tin Base 11. Other <p><i>II. Magnetic</i></p> <ol style="list-style-type: none"> 1. Kovar Base 2. Stainless Steel Base 3. Iron Base 4. Nickel Base 5. Other <p>I. Catalyst</p> <ol style="list-style-type: none"> 1. Carbon 2. Alumina 3. Rare Earth 4. Silica 5. Other |
|---|--|

Scrap Specifications Circular 1997

Guidelines for Ferrous Scrap: FS-97



FERROUS SCRAP

GENERAL INFORMATION

a. Cleanness. All grades shall be free of dirt, nonferrous metals, or foreign material of any kind, and excessive rust and corrosion. However, the terms "free of dirt, nonferrous metals, or foreign material of any kind" are not intended to preclude the accidental inclusion of negligible amounts where it can be shown that this amount is unavoidable in the customary preparation and handling of the particular grade involved.

b. Off-grade material. The inclusion in a shipment of a particular grade of iron and steel scrap of a negligible amount of metallic material which exceeds to a minor extent the applicable size limitations, or which fails to a minor extent to meet the applicable requirements as to quality or kind of material, shall not change the classification of the shipment, provided it can be shown that the inclusion of such off-grade material is unavoidable in the customary preparation and handling of the grade involved.

c. Residual alloys. Wherever the term "free of alloys" is used in the classifications given herein, it shall mean that any alloys contained in the steel are residual and have not been added for the purpose of making an alloy steel. Steel scraps shall be considered free of alloys when the residual alloying elements do not exceed the following percentages:

	percent
Nickel	0.45
Chromium	0.20
Molybdenum	0.10
Manganese	1.65

The combined residuals other than manganese shall not exceed a total of 0.60 percent.

d. Deviations. Any deviations from the general classifications of iron and steel scrap may be consummated by mutual agreement between buyer and seller.

ISRI Code No.	Item
200	No. 1 heavy melting steel. Wrought iron and/or steel scrap ¼ inch and over in thickness. Individual pieces not over 60 × 24 inches (charging box size) prepared in a manner to insure compact charging.
201	No. 1 heavy melting steel 3 feet × 18 inches. Wrought iron and/or steel scrap ¼ inch and over in thickness. Individual pieces not over 36 inches × 18 inches (charging box size) prepared in a manner to insure compact charging.
202	No. 1 heavy melting steel 5 feet × 18 inches. Wrought iron and/or steel scrap ¼ inch and over in thickness. Individual pieces not over 60 inches × 18 inches (charging box size) prepared in a manner to insure compact charging.
203	No. 2 heavy melting steel.* Wrought iron and steel scrap, black and galvanized, ¼ inch and over in thickness, charging box size to include material not suitable as No. 1 heavy melting steel. Prepared in a manner to insure compact charging.

ISRI Code No.	Item
204	No. 2 heavy melting steel.* Wrought iron and steel scrap, black and galvanized, maximum size 36 × 18 inches. <i>May include all automobile scrap properly prepared.</i>
205	No. 2 heavy melting steel 3 feet × 18 inches. Wrought iron and steel scrap, black and galvanized, maximum size 36 × 18 inches. May include automobile scrap, properly prepared, however, to be free of sheet iron or thin gauged material.
206	No. 2 heavy melting steel 5 feet × 18 inches. Wrought iron and steel scrap, black and galvanized, maximum size 60 × 18 inches. May include automobile scrap, properly prepared, however, to be free of sheet iron or thin gauged material.

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- 207 No. 1 busheling.** Clean steel scrap, not exceeding 12 inches in any dimensions, including new factory busheling (for example, sheet clippings, stampings, etc.). May not include old auto body and fender stock. Free of metal coated, lined, vitreous enameled, and electrical sheet containing over 0.5 percent silicon.
- 207A New Black Sheet Clippings.** For direct charging, maximum size 8 feet by 18 inches, free of old automobile body and fender stock, metal coated, lined, vitreous enameled and electrical sheet containing over 0.5 percent silicon, must lay reasonably flat in car.
- 208 No. 1 bundles.** New black steel sheet scrap, clippings or skeleton scrap, compressed or hand bundled, to charging box size, and weighing not less than 75 pounds per cubic foot. (Hand bundles are tightly secured for handling with a magnet.) May include Stanley balls or mandrel wound bundles or skeleton reels, tightly secured. May include chemically detinned material. May not include old auto body or fender stock. Free of metal coated, lined, vitreous enameled, and electrical sheet containing over 0.5 percent silicon.
- 209 No. 2 bundles.** Old black and galvanized steel sheet scrap, hydraulically compressed to charging box size and weighing not less than 75 pounds per cubic foot. May not include tin or lead-coated material or vitreous enameled material.
- 210 Shredded Scrap.** Homogeneous iron and steel scrap, magnetically separated, originating from automobiles, unprepared No. 1 and No. 2 steel, miscellaneous baling and sheet scrap. Average density 50 pounds per cubic foot.
- 211 Shredded Scrap.** Homogeneous iron and steel scrap magnetically separated, originating from automobiles, unprepared No. 1 and No. 2 steel, miscellaneous baling and sheet scrap. Average density 70 pounds per cubic foot.
- 212 Shredded Clippings.** Shredded 1000 series carbon steel clippings or sheets. Material should have an average density of 60 pounds per cubic foot.
- 213 Steel Can Bundles.** Steel can scrap compressed to charging box size and weighing not less than 75 pounds per cubic foot. Cans may be baled without removal of paper labels, but free of other non-metallics. May include up to 5 gallon tin coated containers.
- 214 No. 3 bundles.** Old sheet steel, compressed to charging box size and weighing not less than 75 pounds per cubic foot. May include all coated ferrous scrap not suitable for inclusion in No. 2 bundles.
- 215 Incinerator bundles.** Tin can scrap, compressed to charging box size and weighing not less than 75 pounds per cubic foot. Processed through a recognized garbage incinerator.

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- 216 Terne plate bundles.** New terne plate sheet scrap, clippings or skeleton scrap, compressed or hand bundled, to charging box size, and weighing not less than 75 pounds per cubic foot. (Hand bundles are tightly secured for handling with a magnet.) May include Stanley balls or mandrel wound bundles or skeleton reels, tightly secured.
- 217 Bundled No. 1 steel.** Wrought iron and/or steel scrap $\frac{1}{8}$ inch or over in thickness, compressed to charging box size and weighing not less than 75 pounds per cubic foot. Free of all metal coated material.
- 218 Bundled No. 2 steel.** Wrought iron or steel scrap, black or galvanized, $\frac{1}{8}$ inch and over in thickness, compressed to charging box size and weighing not less than 75 pounds per cubic foot. Auto body and fender stock, burnt or hand stripped, may constitute a maximum of 60 percent by weight. (This percent based on makeup of auto body, chassis, driveshafts, and bumpers.) Free of all coated material, except as found on automobiles.
- 219 Machine shop turnings.** Clean steel or wrought iron turnings, free of iron borings, nonferrous metals in a free state, scale, or excessive oil. May not include badly rusted or corroded stock.
- 220 Machine shop turnings and iron borings.** Same as machine shop turnings but including iron borings.
- 221 Shoveling turnings.** Clean short steel or wrought iron turnings, drillings, or screw cuttings. May include any such material whether resulting from crushing, raking, or other processes. Free of springy, bushy, tangled or matted material, lumps, iron borings, nonferrous metals in a free state, grindings, or excessive oil.
- 222 Shoveling turnings and iron borings.** Same as shoveling turnings, but including iron borings.
- 223 Iron borings.** Clean cast iron or malleable iron borings and drillings, free of steel turnings, scale, lumps and excessive oil.
- 224 Auto slabs.** Clean automobile slabs, cut 3 feet \times 18 inches and under.
- 225 Auto slabs.** Clean automobile slabs, cut 2 feet \times 18 inches and under.
- 226 Briquetted iron borings.** Analysis and density to consumer's specifications.
- 227 Briquetted steel turnings.** Analysis and density to consumer's specifications.
- 228 Mill scale.** Dark colored, ranging from blue to black, ferro-magnetic iron oxide forming on the surface of steel articles during heating and working.

**The identical designations given for these two classifications are in accordance with established industry practices in specifying the materials desired.*

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Item

Electric Furnace Casting, and Foundry Grades

- 229 **Billet, bloom and forge crops.** Billet, bloom, axle, slab, heavy plate and heavy forge crops, containing not over 0.05 percent phosphorus or sulphur and not over 0.5 percent silicon, free from alloys. Dimensions not less than 2 inches in thickness, not over 18 inches in width, and not over 36 inches in length.
- 230 **Bar crops and plate scrap.** Bar crops, plate scrap, forgings, bits, jars, and tool joints, containing not over 0.05 percent phosphorus or sulphur, not over 0.5 percent silicon, free from alloys. Dimensions not less than 1/2 inch in thickness, not over 18 inches in width, and not over 36 inches in length.
- 231 **Plate and structural steel, 5 feet and under.** Cut structural and plate scrap, 5 feet and under. Clean open hearth steel plates, structural shapes, crop ends, shearings, or broken steel tires. Dimensions not less than 1/4 inch thickness, not over 5 feet in length and 18 inches in width. Phosphorus or sulphur not over 0.05 percent.
- 232 **Plate and structural steel, 5 feet and under.** Cut structural and plate scrap, 5 feet and under. Clean open hearth steel plates, structural shapes, crop ends, shearings, or broken steel tires. Dimensions not less than 1/4 inch thickness, not over 5 feet in length and 24 inches in width. Phosphorus or sulphur not over 0.05 percent.
- 233 **Cast steel.** Steel castings not over 48 inches long or 18 inches wide, and 1/4 inch and over in thickness, containing not over 0.05 percent phosphorus or sulphur, free from alloys and attachments. May include heads, gates, and risers.
- 234 **Punchings and plate scrap.** Punchings or stampings, plate scrap, and bar crops containing not over 0.05 percent phosphorus or sulphur and not over 0.5 percent silicon, free from alloys. All materials cut 12 inches and under, and with the exception of punchings or stampings, at least 1/8 inch in thickness. Punchings or stampings under 6 inches in diameter may be any gauge.
- 235 **Electric furnace bundles.** New black steel sheet scrap hydraulically compressed into bundles of size and weight as specified by consumer.
- 236 **Cut structural and plate scrap, 3 feet and under.** Clean open hearth steel plates, structural shapes, crop ends, shearings, or broken steel tires. Dimensions not less than 1/4 inch in thickness, not over 3 feet in length and 18 inches in width. Phosphorus or sulphur not over 0.05 percent.
- 237 **Cut structural and plate scrap, 2 feet and under.** Same as cut structural and plate scrap, 3 feet and under, except for length.
- 238 **Cut structural and plate scrap, 1 foot and under.** Same as cut structural and plate scrap, 3 feet and under, except for length.

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- 239 **Silicon busheling.** Clean silicon bearing steel scrap, not exceeding 12 inches in any dimensions, including new factory busheling (for example, sheet clippings, stampings, etc.), having a silicon content of 0.05 percent to 5.0 percent.
- 240 **Silicon Clippings.** Clean steel scrap, including new factory busheling (for example, sheet clippings, stampings, etc.), may not include old auto body and fender stock. Free of metal coated, limed, vitreous enameled, and electrical sheet containing minimum one percent silicon.
- 241 **Chargeable ingots and ingot butts.** Chargeable ingots and ingot butts for material to be suitable and acceptable to the consumer containing not over 0.05 percent phosphorus or sulphur and not over 0.05 percent silicon free of alloys.
- 242 **Foundry steel, 2 feet and under.** Steel scrap 1/4 inch and over in thickness, not over 2 feet in length or 18 inches in width. Individual pieces free from attachments. May not include nonferrous metals, cast or malleable iron, cable, vitreous enameled, or metal coated material.
- 243 **Foundry steel, 1 foot and under.** Same specifications as 2-foot material, except for length.
- 244 **Springs and crankshafts.** Clean automotive springs and crankshafts, either new or used.
- 245 **Alloy free turnings.** Clean shoveling steel turnings free from lumps, tangled or matted material, iron borings, or excessive oil containing not more than 0.05 percent phosphorus or sulphur, and free of alloys.
- 246 **Alloy free short shoveling steel turnings.** Clean shoveling steel turnings, free of lumps, tangled or matted material, iron borings, or excessive oil, containing not more than 0.05 percent phosphorus or sulphur, and free of alloys.
- 247 **Alloy free machine shop turnings.** Clean steel turnings, free of iron borings or excessive oil, containing not more than 0.05 percent phosphorus or sulphur, and free of alloys. May not include badly rusted or corroded stock.
- 248 **Hard steel cut 30 inches and under.** Automotive steel consisting of rear ends, crankshafts, driveshafts, front axles, springs, and gears prepared 30 inches and under. May not include miscellaneous small shoveling steel or any pieces too bulky for gray iron foundry use.
- 249 **Chargeable slab crops.** Chargeable slab crops for material to be suitable and acceptable to the consumer containing not over 0.05 percent phosphorus and 0.05 percent sulphur and not over 0.05 percent silicon; free of alloys.

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- 250 **Silicon bundles.** Silicon sheet scrap, clippings or skeleton scrap, compressed or hand bundled, to charging box size, and weighing not less than 75 pounds per cubic foot, having a silicon content of 0.50 percent to 5.0 percent.
- 251 **Heavy turnings.** Short, heavy steel turnings, containing not over 0.05 percent phosphorus or sulphur and free of alloys. May include rail chips. May not include machine shop or other light turnings and must weigh not less than 75 pounds per cubic foot in the original state of production.

Specially Processed Grades to Meet Consumer Requirements

Grades of scrap prepared especially to meet with steel mill or foundry requirements, individual specifications to be agreed on between consumer and supplier.

Cast Iron Grades

- 252 **Cupola cast.** Clean cast iron scrap such as columns, pipes, plates, and castings of a miscellaneous nature, including automobile blocks and cast iron parts of agricultural and other machinery. Free from stove plate, burnt iron, brake shoes or foreign material. Cupola size, not over 24 inches x 30 inches, and no piece over 150 pounds in weight.
- 253 **Charging box cast.** Clean cast iron scrap in sizes not over 60 inches in length or 30 inches in width, suitable for charging into an open hearth furnace without further preparation. Free from burnt iron, brake shoes, or stove plate.
- 254 **Heavy breakable cast.** Cast iron scrap over charging box size or weighing more than 500 pounds. May include cylinders and driving wheel centers. May include steel which does not exceed 10 percent of the casting by weight.
- 255 **Hammer block or bases.** Cast iron hammer blocks or bases.
- 256 **Burnt iron.** Burnt cast iron scrap, such as stove parts, grate bars, and miscellaneous burnt iron. May include sash weights or window weights.
- 257 **Mixed cast.** May include all grades of cast iron except burnt iron. Dimensions not over 24 inches x 30 inches and no piece over 150 pounds in weight.
- 258 **Stove plate, clean cast iron stove.** Free from malleable and steel parts, window weights, plow points, or burnt cast iron.
- 259 **Clean auto cast.** Clean auto blocks; free of all steel parts except camshafts, valves, valve springs, and studs. Free of nonferrous and non-metallic parts.
- 260 **Unstripped motor blocks.** Automobile or truck motors from which steel and nonferrous fittings may or may not have been removed. Free from driveshafts and all parts of frames.
- 261 **Drop broken machinery cast.** Clean heavy cast iron machinery scrap that has been broken under a drop. All pieces must be of cupola size, not over 24 inches x 30 inches, and no piece over 150 pounds in weight.

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- 262 **Clean auto cast, broken, not degreased.** Clean auto blocks, free of all steel parts except camshafts, valves, valve springs and studs. Free of nonferrous and non-metallic parts, and must be broken to cupola size, 150 pounds or less.
- 263 **Clean auto cast, degreased.** Free of all steel parts except camshafts, valves, valve springs, and studs. Free of nonferrous and non-metallic parts, and must be broken into cupola size, 150 pounds or less.
- 264 **Malleable.** Malleable parts of automobiles, railroad cars, locomotives, or miscellaneous malleable iron castings. Free from cast iron and steel parts and other foreign material.
- 265 **Broken ingot molds and stools.** Broken ingot molds and stools, cast iron, maximum size 2 feet x 3 feet x 5 feet.
- 266 **Unbroken ingot molds and stools.** Unbroken ingot molds and stools, cast iron.

Special Boring Grades

- 267 **No. 1 chemical borings.** New clean cast or malleable iron borings and drillings containing not more than 1 percent oil, free from steel turnings, or chips, lumps, scale, corroded or rusty material.
- 268 **Briquetted cast iron borings, hot process.** Cast iron borings, heated, briquetted, to a density of approximately 85 percent, oil and water content under one percent.
- 269 **Briquetted cast iron borings, cold process.** Cast iron boring briquettes, free of steel and nonferrous material, hydraulically compressed into a cohesive solid, reasonably free of oil, and having a density of not less than 60 percent.
- 270 **Malleable borings.** Clean malleable iron borings and drillings, free of steel turnings, scale, lumps and excessive oil.
- 271 **No. 2 chemical borings.** New clean cast or malleable iron borings and drillings, containing not more than 1.5 percent oil, free from steel turnings, or chips, lumps, scale, corroded or rusty material.

Railroad Ferrous Scrap*

Specifications of Association of American Railroads Promulgated by its Purchases and Materials Management Division (Revised 1973)

(2) **Axles, Steel.** Solid car and/or locomotive friction bearing, 8 inch diameter and under (free of axles with key-way between wheel seats, no axles of shorter lengths than distance between wheel seats to be included).

(2A) **Axles, Steel.** Solid car and/or locomotive friction bearing over 8 inch diameter (free of axles with key-way between wheel seats, no axles of shorter length than distance between wheel seats to be included).

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- (3) *Axles, Steel.* Roller bearing 8 inch diameter and under (no axles of shorter lengths than distance between wheel seats to be included).
- (3A) *Axles, Steel.* Roller bearing over 8 inch diameter (no axles of shorter length than distance between wheel seats to be included).
- (4) *Spikes, Track Bolts and Nuts, and Lock Washers, may include Rail Anchors.*
- (5) *Tie Plates.* Steel.
- (6) *Rail Joints, Angle and/or Splice Bars.* Steel.
- (9) *Bolsters and/or Truck Sides, Frames: Uncut.* Cast steel.
- (11) *Cast Steel, No. 2.* Steel castings, over 18 inches wide and/or over 5 feet long.
- (11A) *Cast Steel, No. 1.* Steel castings, 18 inches and under, not over 5 feet long, including cut truck side frames and bolsters.
- (12) *Cast Iron, No. 1.* Cast iron scrap, such as columns, pipes, plates, and/or castings of miscellaneous nature, but free from stove plates, brake shoes, and burnt scrap. Must be cupola size, not over 24 inches x 30 inches in dimensions and no piece to weigh over 150 pounds. Must be free from foreign material.
- (13) *Cast Iron, No. 2.* Pieces weighing over 150 pounds, but not more than 500 pounds. Free from burnt cast.
- (14) *Cast Iron, No. 3.* Pieces weighing over 500 pounds; includes cylinders, driving wheel centers and/or all other castings. (Free from hammer blocks or bases.)
- (15) *Cast Iron, No. 4.* Burnt cast iron scrap, such as grate bars, stove parts and/or miscellaneous burnt scrap.
- (16) *Cast Iron Brake Shoes.* Brakes shoes of all types except composition-filled shoes.
- (17) *Couplers and/or Knuckles.* Railroad car and/or locomotive steel couplers, knuckles and/or locks stripped clean of all other attachments.
- (18) *Frogs and/or Switches, uncut.* Steel frogs and switches that have not been cut apart, exclusive of manganese.
- (18A) *Railbound Manganese Frogs and Switch Points with manganese inserts that have not been cut apart.*
- (23) *Malleable.* Malleable parts of automobiles, railroad cars, locomotive and/or miscellaneous malleable castings.
- (24) *Melting Steel, Railroad No. 1.* Clean wrot iron or steel scrap, 1/4 inch and over in thickness, not over 18 inches in width, and not over 5 feet in length. May include pipe ends and material 1/2 inch to 1/4 inch in thickness, not over 15 inches x 15 inches. Individual pieces cut so as to lie reasonably flat in charging box.
- (27) *Rail, Steel No. 1.* Standard section tee rails, original weight 50 pounds per yard or heavier, 10 feet long and over. Suitable for rerolling into bars and shapes. Free from bent and twisted rails, frog, switch, and guard rails, or rails with split heads and broken flanges. Continuous welded rail may be included provided no weld is over 9 inches from the end of the piece of rail.
- (28A) *Rail, Steel No. 2 Cropped Rail Ends.* Standard section, original weight of 50 pounds per yard and over, 18 inches long and under.
- (28B) *Rail, Steel No. 2 Cropped Rail Ends.* Standard section, original weight of 50 pounds per yard and over, 2 feet long and under.
- (28C) *Rail, Steel No. 2 Cropped Rail Ends.* Standard section, original weight 50 pounds per yard and over, 3 feet long and under.

ISRI
Code
NO. Item

- (29) *Rail, Steel No. 3.* Standard section tee, girder, and/or guard rails, to be free from frog and switch rails not cut apart, and contain no manganese, cast, welds, or attachments of any kind except angle bars. Free from concrete, dirt, and foreign material of any kind.
- (30) *Sheet Scrap, No. 1.* Under 3/16 inch thick, may include hoops, band iron and/or steel, scoops and/or shovels (free of wood). Must be free from burnt or metal coated material, cushion, or other similar springs.
- (31) *Sheet Scrap, No. 2.* Galvanized or tinned material and/or gas retorts, and/or any other iron or steel material not otherwise classified.
- (32) *Steel, Tool.* (Specify kind in offering.)
- (33) *Steel, Manganese.* All kinds of manganese, rail, guard rails, frogs and/or switch points, cut or uncut.
- (34) *Steel, Spring.* Coil and/or elliptical, minimum thickness 1/4 inch may be assembled or cut apart.
- (34A) *Steel, Spring.* Coil only.
- (35) *Structural, Wrot Iron and/or Steel Uncut.* All steel or steel mixed with iron from bridges, structures and/or equipment that has not been cut apart, may include uncut bolsters, brakebeams, steel trucks, underframes, channel bars, steel bridge plates, frog and/or crossing plates and/or other steel of similar character.
- (36) *Tires.* All locomotive, not cut to specified lengths.
- (38) *Turnings. No. 1.* Heavy turnings from wrot iron and/or steel railroad axles or heavy forgings and/or rail chips, to weigh not less than 75 pounds per cubic foot. Free from dirt or other foreign material of any kind. Alloy steel scrap may be excluded from these specifications by mutual agreement between buyer and seller.
- (38A) *Turnings, Drillings and/or Borings. No. 2.* Cast, wrot, steel and/or malleable iron borings, turnings and/or drillings mixed with other metals.
- (40) *Wheels, No. 1.* Cast iron car wheels.
- (42) *Wheels, No. 3.* Solid cast steel, forged, pressed and/or rolled steel car and/or locomotive wheels, not over 42 inches diameter. (Specify kind in offering.)
- (45) *Destroyed Steel Cars.* Bodies of steel cars cut apart sufficiently to load. (Specify kind.)
- (45A) *Destroyed Steel Car Sides and Box Car Roofs.* Cut to a maximum length of . . . and a maximum width of . . . suitable for use in super presses and shears without additional preparation.

*Specifications in force as of publication date.

Scrap Specifications Circular 1997

Guidelines for Glass Cullet: GC-97



CONTAINER GLASS CULLET SPECIFICATIONS

PREAMBLE

These standards and practices apply to container glass cullet for purchase or sale in the United States and Canada. Transactions covering shipments to or from other countries may also be in accordance with these standards and practices and may be modified by mutual agreement between buyer and seller. These specifications are guidelines for buying and selling container glass cullet and always subject to the buyer and seller's agreement.

SCRAP GLASS DEFINITIONS

Container Glass Cullet: crushed or whole scrap soda-lime-silica container glass

Unprocessed Container Glass Cullet: broken or whole scrap glass containers which complies with the proper ISRI glass specifications.

Processed (Furnace Ready) Container Glass Cullet: crushed and whole contaminate-free scrap container glass which complies with the proper ISRI glass specifications.

Organic Matter: consists of organic materials that are non-container glass items for example, paper labels and should not exceed .2%.

Ferrous Materials: are magnetic metals, i.e. steel, iron, etc., and therefore, must be removed during scrap glass processing.

Non-ferrous Materials: are non-magnetic metals, i.e. aluminum, lead, copper, etc., and therefore, must be removed during glass processing.

The Purchase Agreement

Each transaction covering the purchase or sale of container glass cullet should be confirmed in writing and include agreement on the following items:

1. Product

Where possible each container glass cullet grade shall be specified in accordance with the grade as defined.

2. Quantity

Where possible, the quantity shall always be specified in terms of a definite number of tons of 2,000 pounds each.

- A. If the quantity is specified in tons, the order shall be considered completed when aggregate shipments are 5% under or over the quantity ordered.
- B. If the quantity is specified in carloads or truckloads, a "load" shall be defined as a truck, trailer, or railroad car loaded to full visible capacity not to exceed established legal weight limits.

3. Packaging

Whether shipped units are to be in boxes, or in bulk by railroad car, truck, or trailer should be stated. Where possible, approximate weights should be specified.

4. Price Units

The price agreed upon shall be clearly stated in US dollars and cents per 2,000 pounds or in US dollars and cents per hundredweight.

5. Terms

Terms shall be "net cash 30 days after date of shipment" unless otherwise agreed upon.

Arbitration

In the event of a total disagreement between buyer and seller, the dispute should be submitted to ISRI arbitration.

In all cases, the cost of arbitration shall be borne by the party found to be at fault, or split in the event of compromise, as determined by the arbitrators.

UNPROCESSED CONTAINER GLASS CULLET SPECIFICATIONS

UNPROCESSED FLINT CONTAINER GLASS CULLET SPECIFICATIONS

Composition: soda-lime-silica beverage or food container glass

Cullet Colors Segregation:

Flint Cullet	
95-100%	Flint
0-5%	Amber
0-5%	Green
0-5%	Other Colors

Size: Cullet may be broken but not pulverized.

Moisture: Cullet should be free of excess moisture.

Contaminant Listings:

Outthrow Materials: Normal container labels; ring and metal closures where processing capabilities permit.

Prohibitive Materials: Non-acceptable items include non-container glass (vision ware, light bulbs, crystal, windows, mirrors, drinking glasses, ceramic, milk glass, etc.) metals, ores, minerals, bricks, clay, grinding and refractory materials, rocks, clay and ceramic closures.

General: The quality of the unprocessed flint container glass cullet must be such that after beneficiation with a conventional container glass cullet processor it will be suitable for the production of glass containers.

Contaminant Listings:

Outthrow Materials: Normal container labels; ring and metal closures where processing capabilities permit.

Prohibitive Materials: Non-acceptable items include non-container glass (vision ware, light bulbs, crystal, windows, mirrors, drinking glasses, ceramic, milk glass, etc.) metals, ores, minerals, bricks, clay, grinding and refractory materials, rocks, clay and ceramic closures.

General: The quality of the unprocessed amber container glass cullet must be such that after beneficiation with a conventional container glass cullet processor it will be suitable for the production of glass containers.

UNPROCESSED GREEN CONTAINER GLASS CULLET SPECIFICATIONS

Composition: soda-lime-silica beverage or food container glass

Cullet Colors Segregation:

Green Cullet	
90-100%	Green
0-10%	Flint
0-10%	Amber
0-5%	Other Colors

Size: Cullet may be broken but not pulverized.

Moisture: Cullet should be free of excess moisture.

Contaminant Listings:

Outthrow Materials: Normal container labels; ring and metal closures where processing capabilities permit.

Prohibitive Materials: Non-acceptable items include non-container glass (vision ware, light bulbs, crystal, windows, mirrors, drinking glasses, ceramic, milk glass, etc.) metals, ores, minerals, bricks, clay, grinding and refractory materials, rocks, clay and ceramic closures.

General: The quality of the unprocessed green container glass cullet must be such that after beneficiation with a conventional container glass cullet processor it will be suitable for the production of glass containers.

UNPROCESSED AMBER CONTAINER GLASS CULLET SPECIFICATIONS

Composition: soda-lime-silica beverage or food container glass

Cullet Colors Segregation:

Amber Cullet	
90-100%	Amber
0-5%	Flint
0-5%	Green
0-5%	Other Colors

Size: Cullet may be broken but not pulverized.

Moisture: Cullet should be free of excess moisture.

Composition: soda-lime-silica container glass

Container Glass Cullet Colors Segregation:

Flint Cullet	Flint
95-100%	Amber
0-5%	Green
0-1%	Other Colors
0-.5%	
Total NON-Flint Cullet = <5%	

Size: Various sizes from whole glass containers to -100 Mesh. However, the ideal material size is 3/8"-to-3/4" with a 10% minimum of fine particles. Material size is based upon buyer and seller's agreement.

Contaminant Listings:

Outthrow Materials: Organic Matter, allowable percentage based upon buyer and seller's agreement.

Prohibitive Materials:

Ferrous Metals

Nonferrous Metals

Ceramics (such as cups, saucers, dinnerware, pottery, etc.)

Other Glass (for example, plate window glass, heat-resistant glass—such as Pyrex—and lead-based glass—such as crystal ware, television tubes, vision ware, etc.)

Other Materials (such as bricks, rocks, etc.)

Composition: soda-lime-silica container glass

Container Glass Cullet Colors Segregation:

Amber Cullet	Amber
90-100%	Flint
0-10%	Green
0-10%	Other Colors
0-5%	
Total NON-Amber Cullet = <10%	

Size: Various sizes from whole glass containers to -100 Mesh. However, the ideal material size is 3/8"-to-3/4" with a 10% minimum of fine particles. Material size is based upon buyer and seller's agreement.

Contaminant Listings:

Outthrow Materials: Organic Matter, allowable percentage based upon buyer and seller's agreement.

Prohibitive Materials:

Ferrous Metals

Nonferrous Metals

Ceramics (such as cups, saucers, dinnerware, pottery, etc.)

Other Glass (for example, plate window glass, heat-resistant glass—such as Pyrex—and lead-based glass—such as crystal ware, television tubes, vision ware, etc.)

Other Materials (such as bricks, rocks, etc.)

Composition: soda-lime-silica container glass

Container Glass Cullet Colors Segregation:

Green Cullet	Green
70-100%	Flint
0-15%	Amber
0-15%	Other Colors
0-10%	
Total NON-Green Cullet = <30%	

******The color green typically consists of a variety of shades, for example: emerald green or lime green.******

Size: Various sizes from whole glass containers to -100 Mesh. However, the ideal material size is 3/8"-to-3/4" with a 10% minimum of fine particles. Material size is based upon buyer and seller's agreement.

Contaminant Listings:

Outthrow Materials: Organic Matter, allowable percentage based upon buyer and seller's agreement.

Prohibitive Materials:

Ferrous Metals

Nonferrous Metals

Ceramics (such as cups, saucers, dinnerware, pottery, etc.)

Other Glass (for example, plate window glass, heat-resistant glass—such as Pyrex—and lead-based glass—such as crystal ware, television tubes, vision ware, etc.)

Other Materials (such as bricks, rocks, etc.)

Scrap Specifications Circular 1997

Guidelines for Paper Stock: PS-97 Domestic Transactions



Paper Stock Industries
A National Chapter of
Institute of Scrap Recycling Industries, Inc.

PAPER STOCK: DOMESTIC TRANSACTIONS

PREAMBLE

These standards and practices apply to paper stock for repulping only and are for use in the United States and Canada. Transactions covering shipments to or from other countries may also be in accordance with these standards and practices and may be modified by mutual agreement between buyer and seller.

Basic to the success of any buyer-seller relationship is an atmosphere of "good faith."

In keeping with this, the following underlying principles have been accepted as necessary to the maintenance of amicable dealings:

1. Seller must use due diligence to ascertain that shipments consist of properly packed paper stock and that shipment is made during the period specified.
2. Arbitrary rejections, deductions and cancellations by the buyer are counter to acceptable good trade practice.
3. Seller shall deliver the quality of paper stock agreed upon but shall not be responsible for its use or the paper or paperboard manufactured therefrom.

I. The Purchase Agreement

Each transaction covering the purchase or sale of paper stock should be confirmed in writing and include agreement on the following items:

1. Quantity

Where possible, the quantity shall always be specified in terms of a definite number of tons of 2,000 lbs. each.

- a. If the quantity is specified in tons, the order shall be considered completed when aggregate shipments are 5% under or over the quantity ordered.
- b. If the quantity is specified in carloads or truckloads, a "load" shall be defined as a truck, trailer or railcar loaded to full visible capacity not to exceed established legal weight limits.

2. Grades

Where possible each grade purchased shall be specified in accordance with the grade as defined in SECTION VI hereof.

3. Packing

Whether units are to be bales, skids, rolls, pallets, boxes, or bundles should be stated. Where possible, approximate sizes or weights should be specified.

4. Price Units

The price agreed upon shall be clearly stated in dollars and cents per 2,000 lbs. or in dollars and cents per hundredweight.

5. Transportation Charge

This shall be clearly indicated with the use of the phrases "f.o.b. shipping point" or "delivered destination" or "f.o.b. shipping point—(\$\$\$) freight allowed."

6. Shipping Instructions

Shipping instructions should clearly specify shipping schedule, route, delivery carrier and destination.

7. Shipping Period

The shipping period shall be understood to be within 30 days of date of order unless otherwise specified.

8. Terms

Terms shall be "net cash 30 days after date of shipment" unless otherwise agreed upon.

9. Method of Invoicing

Invoicing instructions shall be clearly stated.

II. Fulfillment by the Seller

Practices of the seller shall be in accordance with the following:

1. Acceptance

An order is confirmed if verbal or written agreement or initial shipment is received by the buyer.

2. Grading

Paper stock which is sold under the grade names appearing in SECTION VI shall be warranted to conform to those grading definitions.

3. Baling

Each bale must be secured with a sufficient number of bale ties drawn tight to insure a satisfactory delivery.

4. Tare

Sides and headers must be adequate to make a satisfactory delivery of the packing but must not be excessive, nor can they consist of prohibitive materials. The weight of skids or iron cores should be deducted from a gross invoice weight.

5. Identification

The shipper should mark each individual bale as to weight and grade when possible.

6. Loading

Paper stock shall be loaded as follows:

- a. Before they are loaded, cars and trucks shall be free from objectionable materials, odors, and have sound floors.
- b. Grades should be loaded in straight loads unless otherwise agreed to. When two or more grades are included in the same shipment, units of each grade should be kept together in a separate part of the car or truck.
- c. Paper stock must be loaded in a manner that will minimize shifting and breakage. Excessive breakage due to improper loading shall be cause for rejection.

7. Shipping Notice

A shipping notice or an invoice showing the date of shipment, car number and contents shall be mailed or faxed to the buyer within 24 hours of shipment. On request, a bill of lading should also be furnished.

8. Invoicing

Invoicing should conform to instructions on the order and include the following data:

- a. Date of Shipment
- b. Car or Truck Number
- c. Customer's Order Number
- d. Shipper's Invoice Number
- e. F.O.B. Point
- f. Number of Bales, Rolls, etc.
- g. Quantity and Grade
- h. Price and Extension
- i. Terms

9. Rejection

When a seller has been notified of a rejection, he must within two business days advise the buyer as to which of the following procedures he has decided upon:

- a. Order reshipment of the material.
- b. Require the opportunity to inspect the quality of the rejected material within three business days and during such period give buyer final disposition.

- c. Agree with the buyer to a compromise acceptance and settlement.
- d. Request the buyer agree to submit the rejected shipment to arbitration.

III. Fulfillment by the Buyer

The practice of the buyer shall be in accordance with the following:

1. Unloading

After arrival of the shipment, the buyer is to inspect the contents so far as possible while it is still loaded.

If the shipment appears to be in accordance with the order and shipping notice, the buyer shall proceed with the unloading.

Where the bales are tagged or labeled, the buyer shall keep an accurate tally by identifying each bale by number, grade and weight.

If the shipment does not appear to be in accordance with the order and shipping notices, or if the quality of the stock is not in accordance with specifications as agreed, the buyer shall immediately notify the seller of such rejection before unloading.

If during the process of unloading, any portion of the shipment not visible in the original inspection is not in accordance with specifications, shipping notice and order, that portion shall be set aside and the seller immediately notified of its rejection.

If at any time within 21 days after receipt of shipment the buyer, upon opening the bales, finds objectionable materials heretofore not visible, he shall have the right to reject the paper stock and shall immediately notify the seller.

In the event of any rejection, the buyer shall use due diligence to protect all controversial paper stock from external deterioration or contamination.

2. Settlement

In the event that the buyer does not intend to make settlement in accordance with the seller's shipping notice or invoice for reasons OTHER THAN QUALITY.

The buyer shall, within 48 hours or two business days of unloading, notify the seller of any necessary changes and shall furnish detailed information with regard to these changes.

3. Rejection

In the event of a rejection, the buyer shall be responsible for any paper stock used by the buyer and the freight thereon, other than such quantity as may be considered reasonable for laboratory sampling or testing purposes.

IV. Miscellaneous Practices

1. Ownership

- a. If the shipment is purchased "f.o.b. shipping point" and is in accordance with the agreement covering the transaction, it becomes the property of the buyer when loaded on the transportation vehicle.
- b. If the shipment is purchased on a "delivered destination" basis and is in accordance with the agreement covering the transaction, it remains the property of the seller until it is delivered to the buyer by carrier.
- c. If the shipment is purchased on an "f.o.b. shipping point-specified freight allowed" basis and is in accordance with the agreement covering the transaction, it becomes the property of the buyer when loaded on the transportation vehicle.

2. Demurrage Charges

- a. Any demurrage accrued on a shipment due to the failure of the seller to ship in accordance with the order, except with respect to quality, is the liability of the seller.
- b. In the event that a rejection for quality stands, any demurrage accruing on the shipment prior to notification to the seller shall be the buyer's liability.
- c. In the event that negotiation of a substantiated rejection for quality results in agreement by the buyer to accept the shipment, then only the demurrage, following notification of rejection—and including 24 hours after the agreement—becomes the liability of the seller. Demurrage accruing prior to and including the day of notification becomes the liability of the buyer.

3. Carrier Selection

- a. F.O.B. Shipping Point. Selection of the carrier is at the discretion of the buyer unless otherwise agreed.
- b. F.O.B. Delivered. Selection of the carrier is at the discretion of the seller unless otherwise agreed. Should the buyer specify a carrier or routing which results in a freight cost higher than would have occurred had the seller selected the carrier or routing, the difference shall be charged to the buyer.
- c. Any extra switching or excess freight charges accruing on a shipment due to the failure to the seller to protect the agreed upon minimum rail rate or to ship in accordance with the agreement, is the liability of the seller.

4. Weight Discrepancies

No debits, credits or adjustments shall be issued on any shipment of paper stock when the weight variation is 1% or less.

In the event that a discrepancy exceeds those mentioned above as "allowable," the buyer and seller shall exchange copies of unloading and loading records showing individual bale weights. In the event that both parties have such records, and errors cannot be determined, it is recommended that the weight closest to the public carrier's scale weight be assumed to be correct. In the absence of such records on the part of one of the parties, the records of the other party shall govern.

5. Moisture Content

- a. All paper must be packed air dry.

Where excess moisture is present in the shipment, the buyer has the right to request an adjustment and if a settlement cannot be reached, the buyer has the right to reject the shipment.

6. Replacement of Shipment

- a. In the event that any shipment is rejected due to quality:

Whether or not the shipment is to be replaced is to be decided by mutual agreement between buyer and seller.

7. Promptness of Shipment

In the event that shipments are postponed:

- a. On instructions of the BUYER, the seller shall have the option of extending the time limit of the order by the same number of days of the postponement, or of cancelling that portion of the order on which shipment was postponed. Seller shall promptly notify buyer of option selected.
- b. On the instructions of the SELLER, the buyer shall have the option of extending the time limit of the order by the same number of days of the postponement, or of cancelling that portion of the order on which shipment was postponed. Buyer shall promptly notify seller of option selected.

V. Arbitration

1. In the event of a total disagreement between buyer and seller, the dispute should be submitted to ISRI arbitration.
2. In all cases, the cost of arbitration shall be borne by the party found to be at fault, or split in the event of compromise, as determined by the arbitrators.

VI. Grade Definitions

The definitions which follow describe grades as they should be sorted and packed. CONSIDERATION SHOULD BE GIVEN TO THE FACT THAT PAPER STOCK AS SUCH IS A SECONDARY MATERIAL PRODUCED MANUALLY AND MAY NOT BE TECHNICALLY PERFECT. Definitions may not specifically address all types of processes used in the manufacture of, or recycling of, paper products. Specific requirements should be discussed between buyer and seller during negotiations.

Outthrows

The term "Outthrows" as used throughout this section is defined as "all papers that are so manufactured or treated or are in such a form as to be unsuitable for consumption as the grade specified."

Prohibitive Materials

The term "Prohibitive Materials" as used throughout this section is defined as:

- a. Any materials which by their presence in a packing of paper stock, in excess of the amount allowed, will make the packaging unusable as the grade specified.

- b. Any materials that may be damaging to equipment.

Note: The maximum quantity of "Outthrows" indicated in connection with the following grade definitions is understood to be the TOTAL of "Outthrows" and "Prohibitive Materials."

A material can be classified as an "Outthrow" in one grade and as a "Prohibitive Material" in another grade. Carbon paper, for instance, is "UNSUITABLE" in Mixed Paper and is, therefore, classified as an "Outthrow"; whereas it is "UNUSABLE" in White Ledger and in this case classified as a "Prohibitive Material."

(1) Mixed Paper

Consists of a mixture of various qualities of paper not limited as to type of baling or fiber content.

Prohibitive materials may not exceed 2%
Total Outthrows may not exceed 10%

(2) (Grade not currently in use)

(3) Super Mixed Paper

Consists of a baled clean, sorted mixture of various qualities of paper containing less than 10% of groundwood content.

Prohibitive materials may not exceed ½ of 1%
Total Outthrows may not exceed 3%

(4) Boxboard Cuttings

Consists of baled new cuttings of paperboard used in the manufacture of folding cartons, set-up boxes and similar boxboard products.

Prohibitive materials may not exceed ½ of 1%
Total Outthrows may not exceed 2%

(5) Mill Wrappers

Consists of baled paper used as outside wrap for rolls, bundles, or skids of finished paper.

Prohibitive materials may not exceed ½ of 1%
Total Outthrows may not exceed 3%

(6) News

Consists of baled newspaper as typically generated from newsdrives and curbside collections.

Prohibitive materials may not exceed 1%
Total Outthrows may not exceed 5%

(7) Special News

Consists of baled sorted, fresh newspapers, not sunburned, containing not more than the normal percentage of rotogravure and colored sections.

Prohibitive materials None permitted
Total Outthrows may not exceed 2%

(8) Special News De-ink Quality

Consists of baled sorted, fresh newspapers, not sunburned, free from magazines, white blank, pressroom over-issues, and paper other than news, containing not more than the normal percentage of rotogravure and colored sections. This grade must be tare-free.

Prohibitive materials None permitted
Total Outthrows may not exceed ¼ of 1%

(9) Over-Issue News

Consists of unused, overrun newspapers printed on newsprint, baled or securely tied in bundles, containing not more than the normal percentage of rotogravure and colored sections.

Prohibitive materials None permitted
Total Outthrows None permitted

(10) Magazines

Consists of baled coated magazines, catalogues, and similar printed materials. May contain a small percentage of uncoated news-type paper.

Prohibitive materials may not exceed 1%
Total Outthrows may not exceed 3%

(11) Corrugated Containers

Consists of baled corrugated containers having liners of either test liner, jute or kraft.

Prohibitive materials may not exceed 1%
Total Outthrows may not exceed 5%

(12) Double Sorted Corrugated

Consists of baled, double sorted corrugated containers, generated from supermarkets and/or industrial or commercial facilities, having liners or test liner, jute, or kraft. Material has been specially sorted to be free of boxboard, off-shore corrugated, plastic, and wax.

Prohibitive materials may not exceed ½ of 1%
Total Outthrows may not exceed 2%

(13) New Double-Lined Kraft Corrugated Cuttings

Consists of baled new corrugated cuttings having liners of either test liner, jute, or kraft. Treated medium or liners, insoluble adhesives, butt rolls, slabbed or hogged medium, are not acceptable in this grade.

Prohibitive materials None permitted
Total Outthrows may not exceed 2%

(14) (Grade not currently in use)

(15) Used Brown Kraft

Consists of baled brown kraft bags free of objectionable liners and original contents.

Prohibitive materials None permitted
Total Outthrows may not exceed ½ of 1%

(16) Mixed Kraft Cuttings

Consists of baled new brown kraft cuttings, sheets and bag scrap free of stitched paper.

Prohibitive materials None permitted
Total Outthrows may not exceed 1%

(17) Carrier Stock

Consists of baled printed or unprinted, unbleached new beverage carrier sheets and cuttings. May contain wet strength additives.

Prohibitive materials None permitted
Total Outthrows may not exceed 1%

(18) New Colored Kraft

Consists of baled new colored kraft cuttings, sheets and bag scrap, free of stitched papers.

Prohibitive materials None permitted
Total Outthrows may not exceed 1%

(19) Grocery Bag Scrap

Consists of baled, new brown kraft bag cuttings, sheets and misprint bags.

Prohibitive materials None permitted
Total Outthrows may not exceed 1%

(20) Kraft Multi-Wall Bag Scrap

Consists of new brown kraft multi-wall bag cuttings, sheets, and misprint bags, free of stitched papers.

Prohibitive materials Non permitted
Total Outthrows may not exceed 1%

(21) New Brown Kraft Envelope Cuttings

Consists of baled new unprinted brown kraft envelopes, cuttings or sheets.

Prohibitive materials None permitted
Total Outthrows may not exceed 1%

(22) Mixed Groundwood Shavings

Consists of baled trim of magazines, catalogs and similar printed matter, not limited with respect to groundwood or coated stock, and may contain the bleed of cover and insert stock as well as beater-dyed paper and solid color printing.

Prohibitive materials None permitted
Total Outthrows may not exceed 2%

(23) Telephone Directories

Consists of clean telephone directories printed for or by telephone directory publishers.

Prohibitive materials None permitted
Total Outthrows may not exceed ½ of 1%

(24) White Blank News

Consists of baled unprinted cuttings and sheets of white newsprint or other uncoated white groundwood paper of similar quality.

Prohibitive materials None permitted
Total Outthrows may not exceed 1%

(25) Groundwood Computer Printout

Consists of groundwood papers which are used in forms manufactured for use in data processing machines. This grade may contain colored stripes and impact or nonimpact (e.g., laser) computer printing.

Prohibitive materials None permitted
Total Outthrows may not exceed 2%

(26) Publication Blanks

Consists of baled unprinted cuttings or sheets of white coated or filled groundwood content paper.

Prohibitive materials None permitted
Total Outthrows may not exceed 1%

(27) Flyleaf Shavings

Consists of baled trim from magazines, catalogs and similar printed matter. May contain the bleed of cover and insert stock to a maximum of 10% dark colors. Beater-dyed paper may not exceed 2%. Shavings of novel news or newsprint grades may not be included in this grade.

Prohibitive materials None permitted
Total Outthrows may not exceed 1%

(28) Coated Soft White Shavings

Consists of baled unprinted, coated, and uncoated shavings and sheets of white groundwood free printing paper. May contain a small percentage of groundwood.

Prohibitive materials None permitted

Total Outthrows may not exceed 1%

(29) (Grade not currently in use)

(30) Hard White Shavings

Consists of baled shavings or sheets of unprinted, untreated white groundwood free paper.

Prohibitive materials None permitted

Total Outthrows may not exceed ½ of 1%

(31) Hard White Envelope Cuttings

Consists of baled groundwood free cuttings, shavings, or sheets of unprinted, untreated, and uncoated white envelope paper.

Prohibitive materials None permitted

Total Outthrows may not exceed ½ of 1%

(32) (Grade not currently in use)

(33) New Colored Envelope Cuttings

Consists of baled groundwood free cuttings, shavings, or sheets of untreated, uncoated bleachable colored envelope paper.

Prohibitive materials None permitted

Total Outthrows may not exceed 2%

(34) (Grade not currently in use)

(35) Semi Bleached Cuttings

Consists of baled sheets and cuttings of unprinted, untreated, groundwood free paper such as file folder stock, manila tabulating card trim, untreated milk carton stock, or manila tag.

Prohibitive materials None permitted

Total Outthrows may not exceed 2%

(36) Manila Tabulating Cards

Consists of printed groundwood free, bleachable manila-colored cards which have been manufactured for use in tabulating machines. This grade may contain manila-colored tabulating cards with tinted margins.

Prohibitive materials None permitted

Total Outthrows may not exceed 1%

(37) Sorted Office Paper

Consists of baled paper, as typically generated by offices, containing primarily white and colored groundwood free paper, free of unbleached fiber. May include a small percentage of groundwood computer printout and facsimile paper.

Prohibitive materials may not exceed 2%

Total Outthrows may not exceed 5%

(38) Sorted Colored Ledger

Consists of printed or unprinted sheets, shavings, and cuttings of colored or white groundwood free ledger, bond, writing, and other paper which has a similar fiber and filler content. This grade must be free of treated, coated, padded or heavily printed stock.

Prohibitive materials may not exceed ½ of 1%

Total Outthrows may not exceed 2%

(39) Manifold Colored Ledger

Consists of sheets and trim of new (industrially generated) printed or unprinted colored or white groundwood free paper used in the manufacture of manifold forms, continuous forms, data forms, and other printed pieces such as sales literature and catalogs. All stock must be uncoated and free of nonimpact printing. A percentage of carbonless paper is allowable.

Prohibitive materials may not exceed ½ of 1%

Total Outthrows may not exceed 2%

(40) Sorted White Ledger

Consists of printed or unprinted sheets, shavings, guillotined books, and cuttings of white groundwood free ledger, bond, writing, and all other papers which have a similar fiber and filler content. This grade must be free of treated, coated, padded, or heavily printed stock.

Prohibitive materials may not exceed ½ of 1%

Total Outthrows may not exceed 2%

(41) Manifold White Ledger.

Consists of sheets and trim of new (industrially generated) printed or unprinted white groundwood free paper used in the manufacturing of manifold forms, continuous forms, data forms, and other printed pieces such as sales literature and catalogs. All stock must be uncoated and free of nonimpact printing. A percentage of carbonless paper is allowable.

Prohibitive materials may not exceed ½ of 1%

Total Outthrows may not exceed 2%

(42) Computer Printout

Consists of white groundwood free paper in forms manufactured for use in data processing machines. This grade may contain colored stripes and impact or non-impact (e.g. laser) computer printing, and may contain no more than 5% groundwood in the pack. All stock must be untreated and uncoated.

Prohibitive materials None permitted

Total Outthrows may not exceed 2%

(43) Coated Book Stock

Consists of coated groundwood free paper, printed or unprinted in sheets, shavings, guillotined books and cuttings. A reasonable percentage of paper containing fine groundwood may be included.

Prohibitive materials None permitted

Total Outthrows may not exceed 2%

(44) Coated Groundwood Sections

Consists of printed, coated groundwood paper in sheets, sections, shavings or guillotined books. This grade may not include news quality groundwood paper.

Prohibitive materials None permitted

Total Outthrows may not exceed 2%

(45) Printed Bleached Board Cuttings

Consists of groundwood free printed bleached board cuttings, free from misprint sheets, cartons, wax, greaseproof lamination, gilt, and inks, adhesives or coatings that are insoluble.

Prohibitive materials may not exceed ½ of 1%

Total Outthrows may not exceed 2%

(46) Misprinted Bleached Board

Consists of groundwood free misprint sheets and cartons of bleached board, free from wax, greaseproof lamination, gilt, and inks, adhesives or coatings that are insoluble.

Prohibitive materials may not exceed 1%

Total Outthrows may not exceed 2%

(47) Unprinted Bleached Board

Consists of groundwood free unprinted, untreated bleached board cuttings, sheets or rolls, free from wax, greaseproof lamination and adhesives or coatings that are insoluble.

Prohibitive materials None permitted

Total Outthrows may not exceed 1%

(48) #1 Bleached Cup Stock

Consists of baled, untreated cuttings or sheets of coated or uncoated cup base stock. Cuttings with slight bleed may be included. Must be free of wax, poly, and other coatings that are insoluble.

Prohibitive materials None permitted

Total Outthrows may not exceed ½ of 1%

(49) #2 Printed Bleached Cup Stock

Consists of baled printed, untreated formed cups, cup die cuts, and misprint sheets of coated or uncoated cup base stock. Glues must be water soluble. Must be free of wax, poly, and other coatings that are insoluble.

Prohibitive materials None permitted

Total Outthrows may not exceed 1%

(50) Unprinted Bleached Plate Stock

Consists of baled groundwood free bleached coated or uncoated, untreated and unprinted plate cuttings and sheets.

Prohibitive materials None permitted

Total Outthrows may not exceed ½ of 1%

(51) Printed Bleached Plate Stock

Consists of baled groundwood free bleached coated or uncoated, untreated printed plates and sheets. Must be free of coatings or inks that are insoluble.

Prohibitive materials None permitted

Total Outthrows may not exceed 1%

SPECIALTY GRADES

The grades listed at right are produced and traded in carload and truckload quantities throughout the United States, and because of certain characteristics (i.e., the presence of wet strength, polycoatings, plastic, foil, carbon paper, hot melt glue), are not included in the regular grades of paper stock. However, it is recognized that many mills have special equipment and are able to utilize large quantities of these grades. Since many paper mills around the world do use these specialty grades, they are being listed with appropriate grade numbers for easy reference.

The Paper Stock Industries Chapter of ISRI is not establishing specific specifications, which would refer to such factors as the type of wet strength agent use, the percentage of wax, the amount of polycoating, whether it is on top of or under the printing, etc. The specification for each grade should be determined between buyer and seller, and it is recommended that purchase be made based on sample.

These specialty grades are as follows:

- 1—S White Waxed Cup Cuttings
- 2—S Printed Waxed Cup Cuttings
- 3—S Plastic Coated Cups
- 4—S Polycoated Bleached Kraft-Unprinted
- 5—S Polycoated Bleached Kraft-Printed
- 6—S Polycoated Milk Carton Stock
- 7—S Polycoated Diaper Stock
- 8—S Polycoated Boxboard Cuttings
- 9—S Waxed Boxboard Cuttings
- 10—S Printed and/or Unprinted Bleached Sulphate Containing Foil
- 11—S Waxed Corrugated Cuttings
- 12—S Wet Strength Corrugated Cuttings
- 13—S Asphalt Laminated Corrugated Cuttings
- 14—S Beer Carton Scrap
- 15—S Contaminated Bag Scrap
- 16—S Insoluble Glued Free Sheet Paper and/or Board
- 17—S White Wet Strength Scrap
- 18—S Brown Wet Strength Scrap
- 19—S Printed and/or Colored Wet Strength Scrap
- 20—S File Stock
- 21—S New Computer Print Out (C.P.O.)
- 22—S Ruled White
- 23—S Flyleaf Shavings Containing Hot Melt Glue
- 24—S Carbon Mix
- 25—S Books with Covers
- 26—S Unsorted Tabulating Cards
- 27—S Colored Tabulating Cards
- 28—S Carbonless Treated Ledger (N.C.R.)
- 29—S (Not currently in use)
- 30—S Plastic Windowed Envelopes
- 31—S Textile Boxes
- 32—S Printed TMP
- 33—S Unprinted TMP

Scrap Specifications Circular 1997

Guidelines for Paper Stock: PS-97 Export Transactions



Paper Stock Industries
A National Chapter of
Institute of Scrap Recycling Industries, Inc.

PAPER STOCK: EXPORT TRANSACTIONS

PREAMBLE

These Guidelines apply to paper stock for repulping only and are for use in export transactions from the U.S. and Canada.

Basic to the success of any buyer-seller relationship is an atmosphere of "good faith."

In keeping with this, the following underlying principles have been accepted as necessary to the maintenance of amicable international dealings:

1. Seller must use due diligence to ascertain that shipments consist of properly packed paper stock and that shipment is made during the period specified.
2. Arbitrary rejections, deductions and cancellations by the buyer are counter to acceptable good trade practice.
3. Seller shall deliver the quality of paper stock agreed upon but shall not be responsible for its use or the paper or paperboard manufactured therefrom.
4. Unless otherwise mutually agreed to by both buyer-seller, all transactions shall conform to the trade practice outlined in these Guidelines and the grade descriptions shown in the PSI Standards and Practices Circular.

I. The Purchase Agreement

Each transaction covering the purchase or sale of paper stock should be confirmed in writing and include agreement on the following items:

1. Quantity

Where possible, the quantity shall always be specified in terms of a definite number of metric tons of 2204.6 pounds each, or short tons of 2,000 pounds each.

- a. If the quantity is specified in tons, the order shall be considered completed when aggregate shipments are 5% under or over the quantity ordered (unless Letter of Credit restrictions apply).
- b. If the quantity is specified in truckload and/or container load, this is defined as full visible capacity but not in excess of legal or freight line limits.

2. Grades

Where possible, each grade purchased shall be specified in accordance with the grade as defined in the latest Paper Stock Industries Chapter Standards and Practices Circular. Any deviation from the grades listed in the Paper Stock Industries Chapter Standards and Practices Circular should be specified and agreed to by both parties.

3. Packing

Whether units are to be bales, skids, rolls, pallets, boxes, or bundles should be stated. Where possible, approximate sizes or weights should be specified.

4. Price

The price agreed upon shall be clearly stated in U.S. dollars and cents.

5. Transportation Charges

These shall be clearly indicated with the use of the following phrases such as: "F.A.S. harbor," or "C&F," "C.I.F.," or "container yard" (CY), "ex-ship," "ex-frontier."

6. Shipping

- a. Instructions—Should be provided by buyer at time of order. Information should include: consignee; party to be notified; identification marks; insurance information; and freight payment information.
- b. Time Frame—Shipment to be completed within 30 days of receipt of order, Letter of Credit and instruction information, unless otherwise specified.

7. Terms

Payment shall be made in U.S. dollars by means of an irrevocable Letter of Credit confirmed by a U.S. bank.

8. Method of Invoicing

Invoicing instructions shall be clearly stated in Letter of Credit.

II. Fulfillment by the Seller

Practices of the seller shall be in accordance with the following:

1. Acceptance

All orders shall be confirmed in writing.

2. Grading

Paper stock which is sold under the grade names appearing in the PSI Standards and Practices Circular shall be warranted to conform to those grading definitions.

3. Baling

Each bale must be secured with a sufficient number of bale ties drawn tight to insure a satisfactory delivery.

4. Tare

Sides and headers must be adequate to make a satisfactory delivery of the bale but must not be excessive. The weight of skids or iron cores should be deducted from a gross invoice weight.

5. Loading

Paper stock shall be loaded as follows:

- a. Before they are loaded, cars, trucks, and containers shall be in sound condition and free from odors and objectionable materials.
- b. Grades should be loaded in straight loads unless otherwise agreed to. When two or more grades are included in the same shipment, units of each grade should be kept together in a separate part of the container.
- c. Paper stock must be loaded in a manner that will minimize shifting and breakage. Excessive breakage prior to unloading may be cause for a claim.

6. Shipping Notice

A shipping notice or an invoice showing the date of shipment, container number and net weight of contents shall be mailed or telexed to the buyer within 72 hours of shipment. On request, a bill of lading shall be furnished.

7. Invoicing

Invoicing should conform to instructions on the order and include the following data:

- a. Date of Shipment
- b. Container Number
- c. Ship Name
- d. Bill of Lading Number
- e. Customer's Order Number
- f. Shipper's Invoice Number
- g. Number of Bales, Rolls, etc.
- h. Quantity and Grade
- i. Price and Extension
- j. Terms

8. Claims

When a seller has been notified of a claim, he must within five business days advise the buyer as to which of the following procedures he has decided upon:

- a. Require the opportunity to inspect the quality of the material in question within five business days and during such period give buyer final disposition.
- b. Agree with the buyer to a compromise acceptance and settlement.
- c. Request the buyer agree to submit the claim to arbitration.

III. Fulfillment by the Buyer

The practice of the buyer shall be in accordance with the following:

1. Unloading

After arrival of the shipment, the buyer is to inspect the contents so far as possible while it is still loaded.

If the shipment appears to be in accordance with the order and shipping notice, the buyer shall proceed with the unloading.

If the shipment does not appear to be in accordance with the order and shipping notices, or if the quality of the stock is not in accordance with specifications agreed to, the buyer shall immediately notify the seller before unloading.

If during the process of unloading, any portion of the shipment not visible in the original inspection is not in accordance with specifications, shipping notice and order, that portion shall be set aside and the seller immediately notified.

If at any time within 21 days after receipt of shipment, the buyer, upon opening the bales finds objectionable materials heretofore not visible, he shall immediately notify the seller.

In the event of any claim, the buyer shall use due diligence to protect all controversial paper stock from external deterioration or contamination.

2. Claims Other Than Quality

The buyer shall within 10 days of unloading notify the seller of any necessary changes and shall furnish detailed information with regard to these changes.

3. Rejection

In the event of a rejection, the buyer shall be responsible for any paper stock used by the buyer and the freight thereon, other than such quantity as may be considered reasonable for laboratory sampling or testing purposes. The buyers must protect the shipment from weather or any other elements until the claim is settled.

IV. Miscellaneous Practices

1. Ownership

If the shipment is purchased on a "delivered destination" basis, and is in accordance with the agreement covering the transaction, it remains the property of the seller until it is delivered to the buyer by carrier.

2. Demurrage Charges

- a. Any demurrage accrued on a shipment due to the failure of the seller to ship in accordance with the order, except with respect to quality, is the liability of the seller.
- b. In the event that a rejection for quality stands, any demurrage accruing on the shipment prior to notification to the seller shall be the buyer's liability.

- c. In the event that negotiation of substantiated rejection for quality results in agreement by the buyer to accept the shipment, then only the demurrage, following notification of the rejection—and including 24 hours after the agreement—becomes the liability of the seller. Demurrage accruing prior to and including the day of notification becomes the liability of the buyer.

3. Switching and Freight Charges

Any extra switching or excess freight charges accruing on a shipment due to the failure of the seller to protect the agreed upon minimum rate or to ship in accordance with the agreement is the liability of the seller.

4. Weight Discrepancies

No debits, credits or adjustments shall be issued on any shipment of paper stock when the weight variation is 2% or less.

In the event that a discrepancy exceeds those mentioned above as "allowable," the buyer and seller shall exchange copies of certified weight in containers. In the event that both parties have such records, and errors cannot be determined, it is recommended that the weight closest to the public carrier's scale weight shall be assumed to be correct, buyer and seller should agree on the location of the public carrier's scale prior to shipment. In the absence of such records on the part of one of the parties, the records of the other party shall govern.

5. Moisture Content

All paper stock must be packed air dry. A moisture content of 12% is deemed to be air dry.

Where excess moisture is present in the shipment, the buyer has the right to request an adjustment.

6. Replacement of shipment

In the event that any shipment is rejected due to quality:

Whether or not the shipment is to be replaced is to be decided by mutual agreement between buyer and seller.

7. Promptness of Shipment

- a. In the event that buyer causes shipment to be postponed.

On instructions of the buyer, the seller shall have the option of extending the time limit of the order by the same number of days of the postponement, or of cancelling that portion of the order on which shipment was postponed. Seller shall promptly notify buyer of option selected.

- b. In the event that seller causes shipment to be postponed:

On instructions of the seller, the buyer shall have the option of extending the time limit of the order by the same number of days of the postponement, or of cancelling that portion of the order on which shipment was postponed. Buyer shall promptly notify seller of option selected.

8. Outthrows

Outthrows shall be understood to be all papers that are so manufactured or treated or are in such form as to be unsuitable for consumption as the grade specified.

9. Prohibitive Materials

- a. Any materials, which by their presence in a packing of paper stock, in excess of the amount allowed, make the packing unusable as the grade specified.

- b. Any materials, which by their presence in a package of paper stock, pose a risk of damage to the equipment.

Note: In connection with Items 8 and 9, a material can be classified as an "Outthrow" in one grade and as a "Prohibitive Material" in another grade. Carbon paper, for instance, is "UNSUITABLE" in Mixed Paper and is, therefore, classified as an "Outthrow"; whereas it is "UNUSABLE" in White Ledger and in this case classified as a "Prohibitive Material."

V. Arbitration

In the event of a total disagreement between buyer and seller, the dispute should be submitted to ISRI arbitration.

In all cases, the cost of arbitration shall be borne by the party found to be at fault, or split in the event of compromise, as determined by the arbitrators.

VI. Grade Definitions

The definitions which follow describe grades as they should be sorted and packed. CONSIDERATION SHOULD BE GIVEN TO THE FACT THAT PAPER STOCK AS SUCH IS A SECONDARY MATERIAL PRODUCED MANUALLY AND MAY NOT BE TECHNICALLY PERFECT. Definitions may not specifically address all types of processes used in the manufacture of, or recycling of, paper products. Specific requirements should be discussed between buyer and seller during negotiations.

Outthrows

The term "Outthrows" as used throughout this section is defined as "all papers that are so manufactured or treated or are in such a form as to be unsuitable for consumption as the grade specified."

Prohibitive Materials

The term "Prohibitive Materials" as used throughout this section is defined as:

- a. Any materials which by their presence in a packing of paper stock, in excess of the amount allowed, will make the packaging unusable as the grade specified.
- b. Any materials that may be damaging to equipment.

Note: The maximum quantity of "Outthrows" indicated in connection with the following grade definitions is understood to be the TOTAL of "Outthrows" and "Prohibitive Materials."

A material can be classified as an "Outthrow" in one grade and as a "Prohibitive Material" in another grade. Carbon paper, for instance, is "UNSUITABLE" in Mixed Paper and is, therefore, classified as an "Outthrow"; whereas it is "UNUSABLE" in White Ledger and in this case classified as a "Prohibitive Material."

(1) Mixed Paper

Consists of a mixture of various qualities of paper not limited as to type of baling or fiber content.

Prohibitive materials may not exceed 2%

Total Outthrows may not exceed 10%

(2) (Grade not currently in use)**(3) Super Mixed Paper**

Consists of a baled, clean, sorted mixture of various qualities of paper containing less than 10% of groundwood content.

Prohibitive materials may not exceed ½ of 1%

Total Outthrows may not exceed 3%

(4) Boxboard Cuttings

Consists of baled new cuttings of paperboard used in the manufacture of folding cartons, set-up boxes, and similar boxboard products.

Prohibitive materials may not exceed ½ of 1%

Total Outthrows may not exceed 2%

(5) Mill Wrappers

Consists of baled paper used as outside wrap for rolls, bundles, or skids of finished paper.

Prohibitive materials may not exceed ½ of 1%

Total Outthrows may not exceed 3%

(6) News

Consists of baled newspaper as typically generated from newsdrives and curbside collections.

Prohibitive materials may not exceed 1%

Total Outthrows may not exceed 5%

(7) Special News

Consists of baled, sorted, fresh newspapers, not sunburned, containing not more than the normal percentage of rotogravure and colored sections.

Prohibitive materials None permitted

Total Outthrows may not exceed 2%

(8) Special News De-ink Quality

Consists of baled, sorted, fresh newspapers, not sunburned, free from magazines, white blank, pressroom over-issues, and paper other than news, containing not more than the normal percentage of rotogravure and colored sections. This grade must be tare-free.

Prohibitive materials None permitted

Total Outthrows may not exceed ¼ of 1%

(9) Over-Issue News

Consists of unused, overrun newspapers printed on newsprint, baled or securely tied in bundles, containing not more than the normal percentage of rotogravure and colored sections.

Prohibitive materials None permitted

Total Outthrows None permitted

(10) Magazines

Consists of baled coated magazines, catalogues, and similar printed materials. May contain a small percentage of uncoated news-type paper.

Prohibitive materials may not exceed 1%

Total Outthrows may not exceed 3%

(11) Corrugated Containers

Consists of baled corrugated containers having liners of either test liner, jute, or kraft.

Prohibitive materials may not exceed 1%

Total Outthrows may not exceed 5%

(12) Double Sorted Corrugated

Consists of baled, double sorted corrugated containers, generated from supermarkets and/or industrial or commercial facilities, having liners of test liner, jute, or kraft. Material has been specially sorted to be free of boxboard, off-shore corrugated, plastic, and wax.

Prohibitive materials may not exceed ½ of 1%

Total Outthrows may not exceed 2%

(13) New Double-Lined Kraft Corrugated Cuttings

Consists of baled new corrugated cuttings having liners of either test liner, jute, or kraft. Treated medium or liners, insoluble adhesives, butt rolls, slabbed or hogged medium, are not acceptable in this grade.

Prohibitive materials None permitted

Total Outthrows may not exceed 2%

(14) (Grade not currently in use)**(15) Used Brown Kraft**

Consists of baled used brown kraft bags free of objectionable liners and original contents.

Prohibitive materials None permitted

Total Outthrows may not exceed ½ of 1%

(16) Mixed Kraft Cuttings

Consists of baled new brown kraft cuttings, sheets and bag scrap free of stitched paper.

Prohibitive materials None permitted

Total Outthrows may not exceed 1%

(17) Carrier Stock

Consists of baled printed or unprinted, unbleached new beverage carrier sheets and cuttings. May contain wet strength additives.

Prohibitive materials None permitted
Total Outthrows may not exceed 1%

(18) New Colored Kraft

Consists of baled new colored kraft cuttings, sheets and bag scrap, free of stitched papers.

Prohibitive materials None permitted
Total Outthrows may not exceed 1%

(19) Grocery Bag Scrap

Consists of baled, new brown kraft bag cuttings, sheets and misprint bags.

Prohibitive materials None permitted
Total Outthrows may not exceed 1%

(20) Kraft Multi-Wall Bag Scrap

Consists of new brown kraft multi-wall bag cuttings, sheets, and misprint bags, free of stitched papers.

Prohibitive materials Non permitted
Total Outthrows may not exceed 1%

(21) New Brown Kraft Envelope Cuttings

Consists of baled new unprinted brown kraft envelopes, cuttings or sheets.

Prohibitive materials None permitted
Total Outthrows may not exceed 1%

(22) Mixed Groundwood Shavings

Consists of baled trim of magazines, catalogs and similar printed matter, not limited with respect to groundwood or coated stock, and may contain the bleed of cover and insert stock as well as beater-dyed paper and solid color printing.

Prohibitive materials None permitted
Total Outthrows may not exceed 2%

(23) Telephone Directories

Consists of clean telephone directories printed for or by telephone directory publishers.

Prohibitive materials None permitted
Total Outthrows may not exceed ½ of 1%

(24) White Blank News

Consists of baled unprinted cuttings and sheets of white newsprint or other uncoated white groundwood paper of similar quality.

Prohibitive materials None permitted
Total Outthrows may not exceed 1%

(25) Groundwood Computer Printout

Consists of groundwood papers which are used in forms manufactured for use in data processing machines. This grade may contain colored stripes and impact or nonimpact (e.g., laser) computer printing.

Prohibitive materials None permitted
Total Outthrows may not exceed 2%

(26) Publication Blanks

Consists of baled unprinted cuttings or sheets of white coated or filled groundwood content paper.

Prohibitive materials None permitted
Total Outthrows may not exceed 1%

(27) Flyleaf Shavings

Consists of baled trim from magazines, catalogs and similar printed matter. May contain the bleed of cover and insert stock to a maximum of 10% dark colors. Beater-dyed paper may not exceed 2%. Shavings of novel news or newsprint grades may not be included in this grade.

Prohibitive materials None permitted
Total Outthrows may not exceed 1%

(28) Coated Soft White Shavings

Consists of baled unprinted, coated, and uncoated, shavings and sheets of white groundwood free printing paper. May contain a small percentage of groundwood.

Prohibitive materials None permitted
Total Outthrows may not exceed 1%

(29) (Grade not currently in use)

(30) Hard White Shavings

Consists of baled shavings or sheets of unprinted, untreated white groundwood free paper.

Prohibitive materials None permitted
Total Outthrows may not exceed ½ of 1%

(31) Hard White Envelope Cuttings

Consists of baled groundwood free cuttings, shavings or sheets of unprinted, untreated and uncoated white envelope paper.

Prohibitive materials None permitted

Total Outthrows may not exceed ½ of 1%

(32) (Grade not currently in use)

(33) New Colored Envelope Cuttings

Consists of baled groundwood free cuttings, shavings, or sheets of untreated, uncoated bleachable colored envelope paper.

Prohibitive materials None permitted

Total Outthrows may not exceed 2%

(34) (Grade not currently in use)

(35) Semi Bleached Cuttings

Consists of baled sheets and cuttings of unprinted, untreated, groundwood free paper such as file folder stock, manila tabulating card trim, untreated milk carton stock, or manila tag.

Prohibitive materials None permitted

Total Outthrows may not exceed 2%

(36) Manila Tabulating Cards

Consists of printed groundwood free, bleachable manila-colored cards which have been manufactured for use in tabulating machines. This grade may contain manila-colored tabulating cards with tinted margins.

Prohibitive materials None permitted

Total Outthrows may not exceed 1%

(37) Sorted Office Paper

Consists of baled paper, as typically generated by offices, containing primarily white and colored groundwood free paper, free of unbleached fiber. May include a small percentage of groundwood computer printout and facsimile paper.

Prohibitive materials may not exceed 2%

Total Outthrows may not exceed 5%

(38) Sorted Colored Ledger

Consists of printed or unprinted sheets, shavings, and cuttings of colored or white groundwood free ledger, bond, writing, and other paper which has a similar fiber and filler content. This grade must be free of treated, coated, padded or heavily printed stock.

Prohibitive materials may not exceed ½ of 1%

Total Outthrows may not exceed 2%

(39) Manifold Colored Ledger

Consists of sheets and trim of new (industrially generated) printed or unprinted colored or white groundwood free paper used in the manufacture of manifold forms, continuous forms, data forms, and other printed pieces such as sales literature and catalogs. All stock must be uncoated and free of nonimpact printing. A percentage of carbonless paper is allowable.

Prohibitive materials may not exceed ½ of 1%

Total Outthrows may not exceed 2%

(40) Sorted White Ledger

Consists of printed or unprinted sheets, shavings, guillotined books, and cuttings of white groundwood free ledger, bond, writing, and all other papers which have a similar fiber and filler content. This grade must be free of treated, coated, padded, or heavily printed stock.

Prohibitive materials may not exceed ½ of 1%

Total Outthrows may not exceed 2%

(41) Manifold White Ledger

Consists of sheets and trim of new (industrially generated) printed or unprinted white groundwood free paper used in the manufacturing of manifold forms, continuous forms, data forms, and other printed pieces such as sales literature and catalogs. All stock must be uncoated and free of nonimpact printing. A percentage of carbonless paper is allowable.

Prohibitive materials may not exceed ½ of 1%

Total Outthrows may not exceed 2%

(42) Computer Printout

Consists of white groundwood free paper in forms manufactured for use in data processing machines. This grade may contain colored stripes and impact or non-impact (e.g. laser) computer printing, and may contain no more than 5% groundwood in the pack. All stock must be untreated and uncoated.

Prohibitive materials None permitted

Total Outthrows may not exceed 2%

(43) Coated Book Stock

Consists of coated groundwood free paper, printed or unprinted in sheets, shavings, guillotined books and cuttings. A reasonable percentage of paper containing fine groundwood may be included.

Prohibitive materials None permitted
Total Outthrows may not exceed 2%

(44) Coated Groundwood Sections

Consists of printed, coated groundwood paper in sheets, sections, shavings or guillotined books. This grade may not include news quality groundwood paper.

Prohibitive materials None permitted
Total Outthrows may not exceed 2%

(45) Printed Bleached Board Cuttings

Consists of groundwood free printed bleached board cuttings, free from misprint sheets, cartons, wax, greaseproof lamination, gilt, and inks, adhesives or coatings that are insoluble.

Prohibitive materials may not exceed ½ of 1%
Total Outthrows may not exceed 2%

(46) Misprinted Bleached Board

Consists of groundwood free misprint sheets and cartons of bleached board, free from wax, greaseproof lamination, gilt, and inks, adhesives or coatings that are insoluble.

Prohibitive materials may not exceed 1%
Total Outthrows may not exceed 2%

(47) Unprinted Bleached Board

Consists of groundwood free unprinted, untreated bleached board cuttings, sheets or rolls, free from wax, greaseproof lamination and adhesives or coatings that are insoluble.

Prohibitive materials None permitted
Total Outthrows may not exceed 1%

(48) #1 Bleached Cup Stock

Consists of baled, untreated cuttings or sheets of coated or uncoated cup base stock. Cuttings with slight bleed may be included. Must be free of wax, poly, and other coatings that are insoluble.

Prohibitive materials None permitted
Total Outthrows may not exceed ½ of 1%

(49) #2 Printed Bleached Cup Stock

Consists of baled printed, untreated formed cups, cup die cuts, and misprint sheets of coated or uncoated cup base stock. Glues must be water soluble. Must be free of wax, poly, and other coatings that are insoluble.

Prohibitive materials None permitted
Total Outthrows may not exceed 1%

(50) Unprinted Bleached Plate Stock

Consists of baled groundwood free bleached coated or uncoated, untreated and unprinted plate cuttings and sheets.

Prohibitive materials None permitted
Total Outthrows may not exceed ½ of 1%

(51) Printed Bleached Plate Stock

Consists of baled groundwood free bleached coated or uncoated, untreated printed plates and sheets. Must be free of coatings or inks that are insoluble.

Prohibitive materials None permitted
Total Outthrows may not exceed 1%

SPECIALTY GRADES

The grades listed at right are produced and traded in carload and truckload quantities throughout the United States, and because of certain characteristics (i.e., the presence of wet strength, polycoatings, plastic, foil, carbon paper, hot melt glue), are not included in the regular grades of paper stock. However, it is recognized that many mills have special equipment and are able to utilize large quantities of these grades. Since many paper mills around the world do use these specialty grades, they are being listed with appropriate grade numbers for easy reference.

The Paper Stock Industries Chapter of ISRI is not establishing specific specifications, which would refer to such factors as the type of wet strength agent use, the percentage of wax, the amount of polycoating, whether it is on top of or under the printing, etc. The specification for each grade should be determined between buyer and seller, and it is recommended that purchase be made based on sample.

These specialty grades are as follows:

- 1—S White Waxed Cup Cuttings
- 2—S Printed Waxed Cup Cuttings
- 3—S Plastic Coated Cups
- 4—S Polycoated Bleached Kraft-Unprinted
- 5—S Polycoated Bleached Kraft-Printed
- 6—S Polycoated Milk Carton Stock
- 7—S Polycoated Diaper Stock
- 8—S Polycoated Boxboard Cuttings
- 9—S Waxed Boxboard Cuttings
- 10—S Printed and/or Unprinted Bleached Sulphate Containing Foil
- 11—S Waxed Corrugated Cuttings
- 12—S Wet Strength Corrugated Cuttings
- 13—S Asphalt Laminated Corrugated Cuttings
- 14—S Beer Carton Scrap
- 15—S Contaminated Bag Scrap
- 16—S Insoluble Glued Free Sheet Paper and/or Board
- 17—S White Wet Strength Scrap
- 18—S Brown Wet Strength Scrap
- 19—S Printed and/or Colored Wet Strength Scrap
- 20—S File Stock
- 21—S New Computer Print Out (C.P.O.)
- 22—S Ruled White
- 23—S Flyleaf Shavings Containing Hot Melt Glue
- 24—S Carbon Mix
- 25—S Books with Covers
- 26—S Unsorted Tabulating Cards
- 27—S Colored Tabulating Cards
- 28—S Carbonless Treated Ledger (N.C.R.)
- 29—S (Not currently in use)
- 30—S Plastic Windowed Envelopes
- 31—S Textile Boxes
- 32—S Printed TMP
- 33—S Unprinted TMP

Scrap Specifications Circular 1997

Guidelines for Plastic Scrap: P-97



PLASTIC SCRAP

BALED RECYCLED PLASTIC SCRAP COMMERCIAL GUIDELINES

GENERAL INFORMATION

Commercial Guidelines for Baled Recycled Plastic Scrap were developed to provide industry wide quality standards. These standards will facilitate commodity trading of these materials. They will also focus suppliers of such material on the quality requirements of their customers.

Product

These guidelines are designed with the potential for dealing with all recycled plastic in bale form. Initial specifications refer only to bottles. The code framework allows for generation of guidelines for all types of plastic packaging materials (including rigids and flexibles) with room for expansion to other plastic products and resins including those which are used to produce durable goods. Guidelines for those products may be added at a later date.

Codes

Codes for baled recycled plastics consist of a prefix letter, three digits and two suffix letters. The prefix letter "P" precedes all codes and designates "plastic" material. The first digit corresponds to the SPI resin identification code system and designates the primary plastic material. The second digit describes the plastic product category. The third digit defines the color/appearance of the product. The first suffix letter indicates the type of recycled plastic. The second suffix indicates the source of the recycled plastic product. (See Table 1.)

Bale Density

Bales shall be compressed to a minimum density of 10 pounds per cubic foot and a maximum density to be determined by individual contract between buyer and seller. Increased density may improve transportation efficiency, but over-compression may adversely effect the ability of a buyer to separate, sort, and reprocess the material.

Bale Tying Material

Bale wires, ties, or straps shall be made of non-rusting or corroding material.

Bale Integrity

Bale integrity must be maintained through loading, shipping, handling, and storage. Distorted or broken bales are difficult to handle. They are unacceptable and may result in downgrading, rejection, or charge back.

Allowable Contamination

Unspecified materials must not exceed 2% of total bale weight. Bales which contain over 2% will be subjected to reduction in the contracted price of the material as well as charges for disposal of the contaminants. The reduced percentage will vary depending upon the amount and type of contamination. Quality of the baled plastic is the primary factor which determines the value.

Prohibited Material

Certain materials are understood to be specified as "prohibited." Such materials will render the bale "non-specification" and may cause some customers to reject the entire shipment. These may include plastic materials which have a deleterious effect on each other when reprocessed, and materials such as agricultural chemicals, hazardous materials, flammable liquids and/or their containers, and medical waste.

Liquids

Plastic containers/materials should be empty and dry when baled. The bale should be free of any free flowing liquid of any type.

General

Shipments should be essentially free of dirt, mud, stones, grease, glass, and paper. The plastic must not have been damaged by ultraviolet exposure. Every effort should be made to store the material above ground and under cover. A good faith effort on the part of the supplier will be made to include only rinsed bottles which have closures removed.

DEFINITIONS FOR PLASTIC MATERIALS

Rigid Plastic Container

A package (formed or molded container) which maintains its shape when empty and unsupported.

Plastic Bottle

A rigid container which is designed with a neck that is smaller than the body. Normally used to hold liquids and emptied by pouring.

Plastic Film

A thin flexible sheet which does not hold a particular shape when unsupported.

Recycled Plastic

Plastics composed of either post consumer or recovered material or both.

Recovered Plastic

Plastic materials which have been recovered or diverted from the solid waste stream. Does not include materials generated from and commonly reused within an original manufacturing process.

Post Consumer

Products generated by a business or consumer that have served its intended end use and has been separated or diverted from the solid waste stream for the purpose of recycling.

BALED RECYCLED PLASTIC COMMERCIAL GUIDELINES CODING SYSTEM

P 0 0 0 X X

The coding system for baled recycled plastic consists of a three digit number with a prefix letter "P" and a two letter suffix.

The prefix "P" designates the category of Plastics and differentiates the code from similar codes for metals and other materials.

The first digit corresponds to the SPI resin identification code system and designates the primary plastic material.

The second digit describes the plastic/product category.

The third digit defines the color/appearance of the products.

The first suffix indicates the type of recycled plastic.

The second suffix indicates the source of the recycled plastic products.

CODING KEY:

P	0	0	0	X	X
Plastic	Resin Code	Product	Color	Type	Source
	0 Mixed Resins (1-7)				
	1 PET	0—Bottles	0—Mixture	P—Post Consumer	M—Municipal
	2 HDPE	1—Rigids	1—Natural		
	3 PVC			R—Recovered	I—Industrial
	4 LDPE	2—Films	2—Pigmented/Dyed		
	5 PP				C—Commercial
	6 PS	3-9 to be assigned	3-9 Designated within each category		S—Institutional
	7 Other				
	8 to be assigned				
	9 to be assigned				

BALED PLASTIC MATERIAL IDENTIFICATION CODES

Series	Code	Resin	Categories
P-100 Series—PET	P-100	PET	Mixed Bottles
	P-101	PET	Clear Soda Bottles
	P-102	PET	Green Soda Bottles
	P-103	PET	Mixed Clear & Green Soda Bottles
	P-104	PET	Custom Bottles
	P-110	PET	Mixed Rigid Containers
P-200 Series—HDPE	P-200	HDPE	Mixed Bottles
	P-201	HDPE	Natural Bottles
	P-202	HDPE	Pigmented Bottles
P-300 Series—PVC	P-300	PVC	Mixed Bottles
	P-301	PVC	Natural Bottles
	P-302	PVC	Pigmented Bottles
P-400 Series—LDPE	P-400	LDPE	Mixed Bottles
	P-401	LDPE	Natural Bottles
	P-402	LDPE	Pigmented Bottles
P-500 Series—PP	P-500	PP	Mixed Bottles
	P-501	PP	Natural Bottles
	P-502	PP	Pigmented Bottles
P-600 Series—PS	P-600	PS	Mixed Bottles
	P-601	PS	Natural Bottles
	P-602	PS	Pigmented Bottles
P-700 Series Other/Code 7	P-700	OTHER	Mixed Bottles
	P-701	OTHER	Natural Bottles
	P-702	OTHER	Pigmented Bottles
P-000 Series—Mixed resins (Codes 1–7)	P-000	MIXED	Mixed Bottles
	P-001	MIXED	Natural Bottles
	P-002	MIXED	Pigmented Bottles

NOTE: The existence of a code category does not imply the existence of a market for the material. These are representative code categories. Other categories may be developed as the need arises.

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-100**

RESIN: PET MIXED
PRODUCT: Bottles Only
CATEGORY: Mixed soft drink, liquor, edible oil, etc. bottles
TYPE:
SOURCE:
BALE
PROPERTIES: Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained through shipping, unloading & storage
CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or non-plastic material
Dirt: Essentially free of dirt, mud & stones
HAZARDOUS
MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <6 months unless covered with UV protective materials
GENERAL: Good faith effort to rinse bottles and remove closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-101**

RESIN: PET CLEAR
PRODUCT: Bottles Only
CATEGORY: Beverage containers only (1, 2, 3 liter, 16 oz. soft drink bottles)
TYPE:
SOURCE:
BALE
PROPERTIES: Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained through shipping, unloading & storage
CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or non-plastic material
Dirt: Essentially free of dirt, mud & stones
HAZARDOUS
MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <6 months unless covered with UV protective materials
GENERAL: Good faith effort to rinse bottles and remove closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-102**

RESIN: PET GREEN
PRODUCT: Bottles Only
CATEGORY: Beverage containers only (1, 2, 3 liter, 16 oz. soft drink bottles)
TYPE:
SOURCE:
BALE
PROPERTIES: Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained through shipping, unloading & storage
CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or non-plastic material
Dirt: Essentially free of dirt, mud & stones
HAZARDOUS
MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <6 months unless covered with UV protective materials
GENERAL: Good faith effort to rinse bottles

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-103**

RESIN: PET CLEAR and GREEN
PRODUCT: Bottles Only
CATEGORY: Beverage containers only (1, 2, 3 liter, 16 oz. soft drink bottles)
TYPE:
SOURCE:
BALE
PROPERTIES: Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained through shipping, unloading & storage
CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or non-plastic material
Dirt: Essentially free of dirt, mud & stones
HAZARDOUS
MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <6 months unless covered with UV protective materials
GENERAL: Good faith effort to rinse bottles and remove closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-104**

RESIN: PET CUSTOM
PRODUCT: Bottles and Jars Only
CATEGORY: Mixed liquor, edible oil, peanut butter, etc.
bottles/jars

TYPE:
SOURCE:
BALE
PROPERTIES:

Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained
through shipping,
unloading & storage

CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or
non-plastic material
Dirt: Essentially free of dirt,
mud & stones

HAZARDOUS

MATERIALS: No hazardous or medical waste

MOISTURE: No free flowing liquid

STORAGE: Outdoor storage: <6 months unless
covered with UV
protective materials

GENERAL: Good faith effort to rinse bottles and remove
closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-200**

RESIN: HDPE MIXED
PRODUCT: Bottles Only
CATEGORY: Mixed household HDPE bottles (detergent,
shampoo, household products, milk, etc.)

TYPE:
SOURCE:
BALE
PROPERTIES:

Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained
through shipping,
unloading & storage

CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or
non-plastic material
Dirt: Essentially free of dirt,
mud & stones

HAZARDOUS

MATERIALS: No hazardous or medical waste

MOISTURE: No free flowing liquid

STORAGE: Outdoor storage: <1 month unless covered
with UV protective
materials

GENERAL: Good faith effort to rinse bottles and remove
closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-110**

RESIN: PET MIXED
PRODUCT: Rigid Containers
CATEGORY: Mixed bottles, jars, tubs, trays, etc.

TYPE:
SOURCE:
BALE
PROPERTIES:

Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained
through shipping,
unloading & storage

CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or
non-plastic material
Dirt: Essentially free of dirt,
mud & stones

HAZARDOUS

MATERIALS: Non hazardous or medical waste

MOISTURE: No free flowing liquid

STORAGE: Outdoor storage: <6 months unless
covered with UV
protective materials

GENERAL: Good faith effort to rinse bottles and remove
closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-201**

RESIN: HDPE NATURAL
PRODUCT: Bottles Only
CATEGORY: Milk, water, and juice (quart, 1/2 gallon, and
1 gallon bottles)

TYPE:
SOURCE:
BALE
PROPERTIES:

Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained
through shipping,
unloading & storage

CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or
non-plastic material
Dirt: Essentially free of dirt,
mud & stones

HAZARDOUS

MATERIALS: No hazardous or medical waste

MOISTURE: No free flowing liquid

STORAGE: Outdoor storage: <1 month unless covered
with UV protective
materials

GENERAL: Good faith effort to rinse bottles and remove
closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-202**

RESIN: HDPE PIGMENTED
PRODUCT: Bottles Only
CATEGORY: Mixed pigmented household HDPE bottles
(detergent, shampoo, household products, etc.)
TYPE:
SOURCE:
BALE
PROPERTIES: Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained
through shipping,
unloading & storage
CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or
non-plastic material
Dirt: Essentially free of dirt,
mud & stones
HAZARDOUS
MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <1 month unless covered
with UV protective
materials
GENERAL: Good faith effort to rinse bottles and remove
closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-300**

RESIN: PVC MIXED
PRODUCT: Bottles Only
CATEGORY: Mixed clear and pigmented bottles
TYPE:
SOURCE:
BALE
PROPERTIES: Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained
through shipping,
unloading & storage
CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or
non-plastic material
Dirt: Essentially free of dirt,
mud & stones
HAZARDOUS
MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <6 months unless covered
with UV protective
materials
GENERAL: Good faith effort to rinse bottles and remove
closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-301**

RESIN: PVC NATURAL
PRODUCT: Bottles Only
CATEGORY: Clear Bottles
TYPE:
SOURCE:
BALE
PROPERTIES: Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained
through shipping,
unloading & storage
CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or
non-plastic material
Dirt: Essentially free of dirt,
mud & stones
HAZARDOUS
MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <6 months unless covered
with UV protective
materials
GENERAL: Good faith effort to rinse bottles and remove
closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-302**

RESIN: PVC PIGMENTED
PRODUCT: Bottles Only
CATEGORY: Pigmented Bottles
TYPE:
SOURCE:
BALE
PROPERTIES: Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained
through shipping,
unloading & storage
CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or
non-plastic material
Dirt: Essentially free of dirt,
mud & stones
HAZARDOUS
MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <6 months unless covered
with UV protective
materials
GENERAL: Good faith effort to rinse bottles and remove
closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-400**

RESIN: LDPE MIXED
PRODUCT: Bottles Only
CATEGORY: Mixed natural and pigmented bottles

TYPE:
SOURCE:
BALE
PROPERTIES: Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained
through shipping,
unloading & storage

CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or
non-plastic material
Dirt: Essentially free of dirt,
mud & stones

HAZARDOUS

MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <1 month unless covered
with UV protective
materials

GENERAL: Good faith effort to rinse bottles and remove
closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-401**

RESIN: LDPE MIXED
PRODUCT: Bottles Only
CATEGORY: Natural Bottles

TYPE:
SOURCE:
BALE
PROPERTIES: Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained
through shipping,
unloading & storage

CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or
non-plastic material
Dirt: Essentially free of dirt,
mud & stones

HAZARDOUS

MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <1 month unless covered
with UV protective
materials

GENERAL: Good faith effort to rinse bottles and remove
closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-402**

RESIN: LDPE PIGMENTED
PRODUCT: Bottles Only
CATEGORY: Pigmented Bottles

TYPE:
SOURCE:
BALE
PROPERTIES: Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained
through shipping,
unloading & storage

CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or
non-plastic material
Dirt: Essentially free of dirt,
mud & stones

HAZARDOUS

MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <1 month unless covered
with UV protective
materials

GENERAL: Good faith effort to rinse bottles and remove
closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-500**

RESIN: PP MIXED
PRODUCT: Bottles Only
CATEGORY: Mixed natural and pigmented bottles

TYPE:
SOURCE:
BALE
PROPERTIES: Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained
through shipping,
unloading & storage

CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or
non-plastic material
Dirt: Essentially free of dirt,
mud & stones

HAZARDOUS

MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <1 month unless covered
with UV protective
materials

GENERAL: Good faith effort to rinse bottles and remove
closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-501**

RESIN: PP NATURAL
PRODUCT: Bottles Only
CATEGORY: Natural Bottles
TYPE:
SOURCE:
BALE
PROPERTIES: Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained through shipping, unloading & storage
CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or non-plastic material
Dirt: Essentially free of dirt, mud & stones
HAZARDOUS
MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <1 month unless covered with UV protective materials
GENERAL: Good faith effort to rinse bottles and remove closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-502**

RESIN: PP PIGMENTED
PRODUCT: Bottles Only
CATEGORY: Pigmented Bottles
TYPE:
SOURCE:
BALE
PROPERTIES: Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained through shipping, unloading & storage
CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or non-plastic material
Dirt: Essentially free of dirt, mud & stones
HAZARDOUS
MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <1 month unless covered with UV protective materials
GENERAL: Good faith effort to rinse bottles and remove closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-600**

RESIN: PS MIXED
PRODUCT: Bottles Only
CATEGORY: Mixed clear and pigmented bottles
TYPE:
SOURCE:
BALE
PROPERTIES: Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained through shipping, unloading & storage
CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or non-plastic material
Dirt: Essentially free of dirt, mud & stones
HAZARDOUS
MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <6 months unless covered with UV protective materials
GENERAL: Good faith effort to rinse bottles and remove closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-601**

RESIN: PS NATURAL
PRODUCT: Bottles Only
CATEGORY: Clear Bottles
TYPE:
SOURCE:
BALE
PROPERTIES: Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained through shipping, unloading & storage
CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or non-plastic material
Dirt: Essentially free of dirt, mud & stones
HAZARDOUS
MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <6 months unless covered with UV protective materials
GENERAL: Good faith effort to rinse bottles and remove closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-602**

RESIN: PS PIGMENTED
PRODUCT: Bottles Only
CATEGORY: Pigmented Bottles

TYPE:
SOURCE:
BALE
PROPERTIES:

Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained
through shipping,
unloading & storage

CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or
non-plastic material
Dirt: Essentially free of dirt,
mud & stones

HAZARDOUS

MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <6 months unless covered
with UV protective
materials

GENERAL: Good faith effort to rinse bottles and remove
closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-700**

RESIN: CODE #7—OTHER MIXED
PRODUCT: Bottles Only
CATEGORY: Mixed natural and pigmented bottles

TYPE:
SOURCE:
BALE
PROPERTIES:

Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained
through shipping,
unloading & storage

CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or
non-plastic material
Dirt: Essentially free of dirt,
mud & stones

HAZARDOUS

MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <1 month unless covered
with UV protective
materials

GENERAL: Good faith effort to rinse bottles and remove
closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-701**

RESIN: CODE #7—OTHER NATURAL
PRODUCT: Bottles Only
CATEGORY: Natural bottles

TYPE:
SOURCE:
BALE
PROPERTIES:

Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained
through shipping,
unloading & storage

CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or
non-plastic material
Dirt: Essentially free of dirt,
mud & stones

HAZARDOUS

MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <1 month unless covered
with UV protective
materials

GENERAL: Good faith effort to rinse bottles and remove
closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-702**

RESIN: CODE #7—OTHER PIGMENTED
PRODUCT: Bottles Only
CATEGORY: Pigmented Bottles

TYPE:
SOURCE:
BALE
PROPERTIES:

Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained
through shipping,
unloading & storage

CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or
non-plastic material
Dirt: Essentially free of dirt,
mud & stones

HAZARDOUS

MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <1 month unless covered
with UV protective
materials

GENERAL: Good faith effort to rinse bottles and remove
closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-000**

RESIN: MIXED RESINS (Coded 1 through 7)—
MIXED COLOR
PRODUCT: Bottles Only
CATEGORY: Natural and pigmented bottles
TYPE:
SOURCE:
BALE
PROPERTIES: Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained
through shipping,
unloading & storage
CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or
non-plastic material
Dirt: Essentially free of dirt,
mud & stones
HAZARDOUS
MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <1 month unless covered
with UV protective
materials
GENERAL: Good faith effort to rinse bottles and remove
closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-001**

RESIN: MIXED RESINS (Coded 1 through 7)—
NATURAL
PRODUCT: Bottles Only
CATEGORY: Natural bottles
TYPE:
SOURCE:
BALE
PROPERTIES: Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained
through shipping,
unloading & storage
CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or
non-plastic material
Dirt: Essentially free of dirt,
mud & stones
HAZARDOUS
MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: 1< month unless covered
with UV protective
materials
GENERAL: Good faith effort to rinse bottles and remove
closures

**COMMERCIAL GUIDELINE BALED RECYCLED
PLASTIC STANDARD P-002**

RESIN: MIXED RESINS (Coded 1 through 7)—
PIGMENTED
PRODUCT: Bottles Only
CATEGORY: Pigmented bottles
TYPE:
SOURCE:
BALE
PROPERTIES: Dimension: 72" maximum
Bulk Density: 10 lbs/cu.ft. minimum
Strapping: Non-rusting material
Integrity: Must be maintained
through shipping,
unloading & storage.
CONTAMINATION: Total allowable: 2%
Type: Non specified plastic or
non-plastic material
Dirt: Essentially free of dirt,
mud & stones
HAZARDOUS
MATERIALS: No hazardous or medical waste
MOISTURE: No free flowing liquid
STORAGE: Outdoor storage: <1 month unless covered
with UV protective
materials
GENERAL: Good faith effort to rinse bottles and remove
closures

Scrap Specifications Circular 1997

Guidelines for Metals Transactions



GUIDELINES FOR METALS TRANSACTIONS

These Guidelines are intended as a reference to assist members in carrying out their business obligations in a manner consistent with accepted industry practices. While the Guidelines are not obligatory, it is suggested that potential problems and misunderstandings may often be avoided by following these recommended procedures, in conjunction with ISRI's scrap descriptions.

At times, the respective parties to a transaction may be unaware of the differences in trading practices of the other party. This diversity of interpretation often leads to misunderstandings, disputes, and in some instances expensive lawsuits. It is with the objective of providing members the means of avoiding such friction that ISRI has published these Guidelines, which are based on those practices most common and current in the industry.

On these points where it is impractical to provide recommendations, it is advised that the points be mutually agreed upon by the parties involved.

PART I

GUIDELINES FOR CONTRACTS

A contract is an agreement between two or more parties to perform a legally enforceable act.

Therefore, all contracts should be in writing and set forth in **specific** terms. Before signing a contract, one should carefully read and understand all terms of it. No discrepancies or ambiguities should exist at the time the contract is executed. If you receive a contract with terms that are objectionable, you should immediately notify the other party in writing of your objections. An attorney should be consulted when legal advice is needed.

It should be kept in mind that if a dispute arises under a contract, and a court is called in to interpret its terms, certain general rules will be applied. First of all, contracts will be construed as a "whole," and specific clauses will be subordinated to the contract's general intent. Secondly, courts will construe words according to their "ordinary" meaning unless it is clearly shown that they were meant to be used in a technical sense. Also, where provisions appear to be inconsistent, the courts will determine whether some of the provisions are printed (indicating a form contract), as compared to others which are written or typed. The latter kinds of provisions will prevail.

It should be remembered that where you and a buyer (or seller) have reached verbal agreement on a transaction, your failure to sign and return a contract which is sent to you in confirmation of that verbal agreement may not relieve you of the obligations of the terms and conditions enumerated in that contract.

This Guideline was developed to cover routine transactions. It is essential that any unusual arrangements must be completely spelled out in a contract. With these factors in mind, the following list of items is enumerated as a **Checklist** for you to follow, either in the construction of a contract, or for the review of another party's contract proposal. We cannot overemphasize the need for accuracy and specificity.

Checklist Items (Be specific at all times)

I. Parties to Agreement:

Indicate full name and address of buyer and seller. Include name of individual person or persons involved. Buyer's and seller's signatures are fundamental.

II. Date of Contract:

- (a) Give date the initial agreement was reached.
- (b) Give Contract Number.

III. Description of Material:

Use NF code names or clearly describe what is being traded. Any allowable quality variation to be so stated. Ex: "X percent moisture allowed" or "Minimum CU content to be X percent" or "X percent Painted Material allowed."

IV. Quantity:

State exact quantity expected and indicate allowable tolerances or minimum/maximum limitations. Ex: "40,000 lbs. (5% More/Less allowed)" or "38,000 to 42,000 lbs."

V. Packing:

State type of packing allowable and restrictions if such are required. Ex: "Bales not to exceed 60 inches"; "Bales not to exceed 3,500 lbs."

VI. Delivery:

Show complete address of shipping or delivery point, including where applicable, specific rail siding or junction, forwarding warehouse, and party to be notified. Ex: "FOB (Actual Point of Shipment) Chicago, Ill."; "FOB (Actual Point of Delivery) St. Louis, Mo."; "FAS Baltimore Container Yard"; "C & F Tokyo, Japan." If these details cannot be furnished at the time of writing of contract, it should state "shipping/delivery instructions to follow." State means of conveyance to be employed. State size and type of truck, rail car, container or number of shipments expected or permitted.

VII. Shipment:

Time allowed for shipment or delivery should be clearly stated. Ex: "Shipment by Jan. 15, 1989 LATEST"; or "delivery by Jan. 15, 1989." Indicate at whose option, buyer's or seller's, shipment shall be made in time period stated.

VIII. Price:

State price per unit. Ex: "\$20.00/CWT"; "20.00 Cents/Pound"; "\$400.00/Net Ton"; "\$440.92/Metric Ton," and indicate where appropriate "Clean and Dry"; "Full Copper Content." If applicable, state exact processing, smelting, refining charge, or unit deductions for impurities. (Avoid the use of the word "penalties.")

IX. Payment:

Terms of payment should be explicit. Ex: "Net 30 days after shipment"; "Net 15 days after mill receipt." Avoid phrases such as "usual," "Net 30," "Net Cash." Documents required to effect payment to be clearly stated. Ex: "Bill of Lading, Invoice, Weight Certificate." State how payment shall be made. If there is discussion of compensation for delayed payments, it should be included in the contract. If Letter of Credit is called for as a means of payment, it would be advisable that the terms to be included in the Letter of Credit also be stated in the

contract. When applicable, contract should state whether buyer or seller is responsible for payment of taxes, duties, or any other levies to which a shipment could be subjected. Contract should state whether the seller's or buyer's weights shall govern the basis of settlement.

X. Assignment:

The contract may state whether the buyer and/or the seller has the right to assign the contract. If it does, it should emphasize that the obligation arising under the contract shall be equally binding on his assignee.

XI. Notice:

The seller should specify how notice to be given under the contract should be received—i.e. by hand, by telegram, by certified or registered mail. One should also specify when notice is deemed to be received by the party to whom it is given.

XII. Disclaimer of Warranties:

Depending on the type of transaction, or the metal involved, the seller may want to limit his liability by disclaiming any warranties of merchantability or of fitness for a particular purpose.

XIII. Default:

The contract should contain a provision setting forth the events which would result in a default of the contract. This provision might also contain a clause stipulating damages and/or setting forth available remedies (i.e. specific performance) in the event a default does, in fact, occur.

XIV. Force Majeure:

This item is related to the item of default, as indicated in paragraph XIII. Seller or buyer may enumerate, either generally or specifically, what events (i.e. strikes, fires, accidents) constitute circumstances beyond its control and thereby absolve him of any liability for damages or delay.

XV. Non-Waiver:

The seller or buyer should state in the contract that his failure to insist upon strict performance in any given instance shall not be construed as a waiver or relinquishment for the future of any of the terms, covenants and conditions contained therein.

XVI. Claims:

The seller may specify that any claims involved in a metals transaction for contaminated materials, weight shortage, or for any other cause is waived by the buyer unless brought to the seller's attention within a certain number of days after delivery.

XVII. Arbitration and Applicable Law:

The contract should set forth which state's or country's law will apply in the event of a legal dispute under the contract. It should also provide for arbitration procedure. (If ISRI Arbitration is desired, the contract should so stipulate.)

XVIII. Benefit:

The contract should stipulate on whom it is binding. For instance, the seller or buyer may want to specify that the contract inures to the benefit of the parties, their legal representatives, successors and assigns.

XIX. Entire Agreement:

This provision is especially important in the area of metals transactions, which frequently involve extensive preliminary negotiations. A clause may be inserted into the contract stating that the contract constitutes the parties' entire agreement and supersedes all prior agreements and understandings with respect to the subject matter of the contract.

XX. Modification:

A clause may be included in the contract stating that the contract's requirements can only be modified by a writ-

ten instrument signed by the parties or their respective agents. This insures that the parties' informal discussions will not later be construed as effecting an alteration of the contract.

PART II

PACKING, WEIGHING, SHIPPING AND RECEIVING

It is recommended that strict adherence to contract terms will minimize many of the potential problems in this area. If there is a question about any item, one should communicate with his buyer/seller and clarify the situation prior to shipping. Listed below are some specific guidelines to be used in avoiding the most frequently reported problems.

PACKING (ALL SHIPMENTS)

Seller's Responsibility:

- a. Pack in the manner and form agreed. Example: In sound bales, briquettes, boxes, pallets, drums, loose, etc.
- b. Be sure that buyer agrees with your definition of words and phrases, i.e. Bale, Briquette, Coil, etc., as well as allowed dimensions and weights of such.
- c. Material and packages should be securely tied or supported so that packages will hold in transit and normal handling.

Buyer's Responsibility:

- a. Advise seller of any specific prohibitions, i.e. type or method of packing, size or weight of pieces, units or packages, etc.
- b. Be sure that seller agrees with your definition of words and phrases, i.e. Bale, Briquette, Coil, etc., as well as allowed dimensions and weights of such.

WEIGHING, SHIPPING AND RECEIVING (TRUCK SHIPMENT)

Seller's Responsibility:

- a. Each package should be individually weighed and the entire truckload should be checkweighed for comparison. Reconcile or explain any differences. If truck is weighed during inclement weather or wind, make note of this on weight ticket.
- b. Trailers should be drop-weighed (both empty and loaded).
- c. All equipment should be inspected before load-

ing, and cleaned or repaired where necessary to avoid loss or spillage.

- d. Open top trucks or trailers should be tarped or covered.
- e. Vans and closed trailers should be sealed and seal numbers indicated on all documents.
- f. If your customer requires appointments, make one in advance. Otherwise, as a courtesy, advise the buyer of your anticipated delivery schedules.
- g. A complete manifest and packing list should accompany each shipment. This should clearly indicate the order number, items shipped, number and type of packages of each commodity, as well as the gross, tare and net weights of each package. This detailed information should be put into an envelope and attached to the inside wall of the truck or van. If this cannot be done, give a complete set of papers to the driver to deliver with the original Bill of Lading covering the shipment. At the very least, notify buyer by telephone, telex or wire of these details on the day shipment leaves.
- h. Different lots should always be properly segregated and bulkheaded to avoid comingling. Each package should be tagged or marked to aid in proper identification and segregation at the receiving point.
- i. Be aware that someone at the delivery point will have to unload the shipment. Pay particular attention to door areas to assure that material is loaded safely. Proper care should be taken to insure that the material can be unloaded in a safe and expedient manner.

Buyer's Responsibility:

- a. If seller requires appointment prior to pickup, make one in advance. Otherwise, as a courtesy, advise the seller of your anticipated pickup schedule.
- b. Trailers should be drop-weighed (both empty and loaded).
- c. Carefully check shipment advices and compare package count, seal numbers, weights.
- d. **Prior to unloading**, if a significant* weight difference is apparent, the seller should be notified promptly and if requested, another weight should be taken to determine if spillage or theft might have occurred.
- e. **After unloading**, promptly advise seller of any significant* differences between advised and actual weights, segregation, classification or quality. (Note: Refer to Part IV of the circular for recommended procedures in handling quality problems.)
- f. Truck or trailer should be completely unloaded including any spilled material which should be picked up, weighed and identified as spilled from original containers. Buyers should cooperate in every way to help minimize losses.

WEIGHING, SHIPPING AND RECEIVING (RAIL SHIPMENT)

Seller's Responsibility:

- a. Each package should be individually weighed and the entire rail car should be checkweighed for comparison. Reconcile or explain any differences. If rail car is weighed during inclement weather or wind, make note of this on weight ticket.
- b. Railroad cars should be uncoupled and at rest (if possible) before weighing.
- c. All equipment should be inspected before loading, and cleaned or repaired where necessary to avoid loss or spillage.
- d. Railroad cars should be sealed and seal numbers indicated on all documents.
- e. A complete manifest and packing list should accompany each shipment. This should clearly indicate the order number, items shipped, number and type of packages of each commodity, as well as the gross, tare and net weights of each package. This detailed information should be put into an envelope and attached to the inside wall of the railroad car. If this cannot be done, mail a complete set of papers to the buyer on the day shipment leaves.
- f. Different lots should always be properly segregated and bulkheaded to avoid comingling. Each package should be tagged or marked to aid in proper identification and segregation at the receiving point.
- g. Be aware that someone at the delivery point will have to unload the shipment. Pay particular attention to door areas to assure that material can be unloaded in a safe and expedient manner.

Buyer's Responsibility:

- a. Railroad cars should be uncoupled and at rest (if possible) before weighing.
- b. Carefully check shipment advices and compare package count, seal numbers, weights.
- c. **Prior to unloading**, if a significant* weight difference is apparent, the seller should be notified promptly and if requested, another weight should be taken to determine if spillage or theft might have occurred.
- d. **After unloading**, promptly advise seller of any significant* differences between advised and actual weights, segregation, classification or quality. (Note: Refer to Part IV of the circular for recommended procedures in handling quality problems.)
- e. Rail car should be completely unloaded including any spilled material which should be picked up, weighed and identified as spilled from original containers. Buyer should cooperate in every way to help minimize losses.

WEIGHING, SHIPPING AND RECEIVING (EXPORT/IMPORT SHIPMENT)

Seller's Responsibility:

- a. Each package should be individually weighed and the entire container load should be checkweighed for comparison. If container is weighed during inclement weather or wind, make note of this on weight ticket.
- b. Container and chassis should be drop-weighed, if possible, both empty and loaded.
- c. Prepare and send to buyer a complete manifest and packing list indicating the order number, items shipped, number and type of packages of each commodity, as well as the gross, tare and net weights of each package and the seal numbers.
- d. If shipment is against a Letter of Credit, pay strict attention to all terms.
- e. Place seals on all container doors and indicate seal numbers on documentation.
- f. Material and packages should be properly stowed and braced to prevent movement during shipment.
- g. Be aware that someone at the delivery point will have to unload the shipment. Pay particular attention to door areas to assure that material is loaded safely. Proper care should be taken to insure that the material can be unloaded in a safe and expedient manner.

Buyer's Responsibility:

- a. Container and chassis should be drop-weighed, if possible, both empty and loaded.
- b. Carefully check shipment advices and compare package count, seal numbers, weights.
- c. **Prior to unloading**, if a significant* weight difference is apparent, the seller should be notified promptly and if requested, another weight should

be taken to determine if spillage or theft might have occurred. Seller should be given opportunity to appoint surveyor or representative to verify weights.

- d. **After unloading**, promptly advise seller of any significant* differences between advised and actual weights, segregation, classification or quality. (Note: Refer to Part IV of the circular for recommended procedures in handling quality problems.)

- e. Container should be completely unloaded including any spilled material which should be picked up, weighed and identified as spilled from original containers. Buyer should cooperate in every way to help minimize losses.

**For purposes of this section, the meaning of the word "significant" shall be determined by agreement between buyer and seller, depending on the commodities and their values.*

PART III

TRANSPORTATION GUIDE

The mode and type of conveyance should be specified in the contract. If it has not been, then it is important that buyer and seller agree upon the mode and type to be used. These guidelines will assist in determining the appropriate means of transportation to employ.

A. Mode—Truck/Trailer

1. Type:

- a. Dump
- b. Removable sides
- c. Van—open or closed
- d. Dimensions of unit (20 ft., 40 ft., etc.)
- e. Determine if truck/trailer capacity meets minimum weight specified on contract.

B. Mode—Rail Car

1. Type:

- a. Box car or gondola
- b. Size of door opening, i.e. single or double door
- c. Special type D.F., Hi Cube, etc.
- d. Dimensions of car (40 ft., 50 ft., 60 ft., etc.)
- e. Determine if rail car capacity meets minimum weight specified on contract.

C. Export Shipments

1. Container:

- a. Type of container, i.e. closed, open-top, flat rack, hi-cube, etc.
- b. Size of container (20 ft., 35 ft., 40 ft., 45 ft., etc.)
- c. Determine if container capacity meets minimum weight specified on contract.

2. Breakbulk

PART IV

REJECTIONS—DOWNGRADES—CLAIMS

A brief explanation of these items will help one understand and implement the procedures recommended in this section.

Rejections: Rejections can occur when a buyer refuses to accept a shipment of material that does not conform to the description specified in the contract. Usually in such cases, the buyer cannot utilize the material and the seller is asked to remove the material from the buyer's place of delivery. A rejection can occur prior to unloading, but often the cause of the problem cannot be determined until the material has been offloaded and graded. Any part, or all of the shipment, may be subject to rejection.

Downgrades: Downgrades can occur when all, or part, of the material in a shipment is not in conformity with the description specified in the contract. Often, in such cases, the buyer can utilize the material and is willing to accept delivery of the material, subject to a price commensurate with its value.

Claims: This term is used mostly in export-import movements, and is used generically to encompass both rejections and downgrades, as well as weight shortages.

Strict adherence to contract terms can minimize the common causes of these difficulties. However, if a problem arises, it should be given prompt attention and settlement should be attempted as quickly as is practical. It is essential that both parties cooperate and keep communications open to minimize expenses and to preserve the relationship. Negotiations should not be conflicting but mutually beneficial and fair. Listed below are some recommended steps to be taken when a problem arises.

DOMESTIC SHIPMENTS

Buyer's Responsibilities:

- a. In the event of a **rejection** buyer must notify seller immediately by telephone or telex. If seller fails to respond within two business days, buyer may return material in most prudent manner. Subject to contract provisions, buyer should promptly advise seller concerning replacement of rejected material.
- b. In the event of a **downgrade** buyer must notify seller immediately by telephone or telex and afford seller an opportunity to inspect the material prior to its use. If material is to be inspected by seller or his representative, buyer should agree to a mutually convenient time to do so.
- c. Buyer must give seller option of removing material if he does not agree to downgrade. (All costs of unloading and reloading are for seller's account.)

Seller's Responsibilities:

- a. In the event of a **rejection** seller should respond promptly and advise buyer of his intentions. Seller must reply within two business days. Subject to contract provisions, he must advise buyer promptly concerning replacement of rejected material.
- b. In the event of an unacceptable **downgrade** seller must advise buyer within two business days if he

wishes to inspect material and agree upon a mutually convenient time to do so.

- c. If seller wishes to remove downgraded material from buyer's delivery point, he must advise buyer promptly. (All costs of unloading and reloading are for seller's account.)

EXPORT-IMPORT SHIPMENTS

Buyer's Responsibility:

- a. In the event of a **claim**, time is of the essence and notification should be given to seller within a reasonable period of time after arrival of vessel in receiving port.
- b. In the event of a **claim**, the material should be held intact until agreement has been reached. The acceptable portion of the material may be consumed and/or arrangements may be made to sample a portion of material, i.e., 10%–25% with balance held intact pending resolution of claim.

Seller's Responsibility:

- a. In the event of a **claim**, seller should respond to buyer's notification promptly by telephone, telex, wire, or cable.
- b. When a claim settlement has been agreed upon, terms of settlement must be followed promptly.

DOCUMENTS PROVIDED IN RESPONSE TO
EPA'S REQUESTS NO. 22 & 23



RULE 6 NOTIFICATION (NOI) LETTER
State Form 51288 (R5/2-00)
Form Approved by State Board of Accounts, 2004
INDIANA DEPARTMENT OF ENVIRONMENTAL
MANAGEMENT

NOTE:

- This form must be used to apply for a general NPDES permit pursuant to 327 IAC 15-6.
- Please type or print in ink.
- Return this form, required addenda, and payment by mail to the IDEM Rule 6 Coordinator at the address listed in the box on the upper-right.

For questions regarding this form, contact:
IDEM - Rule 6 Coordinator
100 North Senate Avenue, Rm 1255
Mail Code 85-42
Indianapolis, IN 46204
Phone: (317) 233-0202 or
(800) 451-6027, ext. 30202 (within Indiana)
Web Access:
<http://www.in.gov/idem/permits/water/wastewater/water/StormRule6.html>

EXCLUSIONS:

Permit coverage under 327 IAC 15-6 applies to all entities that:

1. are not required to obtain an individual NPDES permit under 327 IAC 15-2-9(b);
2. meet the general permit rule applicability requirements under 327 IAC 15-2-3;
3. have not received an approved "No Exposure" exclusion for storm water permitting;
4. have a discharge composed entirely of storm water and allowed non-storm water contributions; and
5. operate, maintain, or otherwise have responsibility for an industrial facility meeting the applicability requirements of 327 IAC 15-6-2.

APPLICATION TYPE (6/16/2001)

☐ Initial NOI letter
☒ Renewal NOI letter
☐ Amended NOI letter

Was there a change of ownership since the last NOI letter?
☐ Yes ☒ No

PART A: GENERAL INFORMATION FOR FACILITY

1. Facility name: **J. Trockman & Sons, Inc.**

2. Primary Standard Industrial Classification (SIC) Code for the facility (4 digits): **5093**

3. Facility location address: **1017 Bayse Street**
City: ☒ **Evansville** ZIP: **47714** County: **Vanderburgh**
Town: ☐
Village: ☐

4. Longitude and Latitude of the approximate center of the facility to the nearest fifteen (15) seconds.
Decimal Longitude: **87.54528** Decimal Latitude: **37.94666**

LONGITUDE			LATITUDE		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
87	32	43 "	37	56	48 "

5. On-site Facility Contact name: **Jeff Trockman**

6. On-site Facility Contact title: **Vice President**

7. On-site Facility Contact telephone number: **812-425-5271**

8. On-site Facility Contact facsimile number (if applicable): **812-425-5277**

9. On-site Facility Contact e-mail address (if applicable): **jeff@trockman.com**

10. Has the facility been issued a past or present NPDES permit? (If yes, provide permit numbers) ☒ Yes ☐ No
Permit Number(s): **IN-1NR000102** **IN-1NR600255** **IN-** **IN-**

11. Brief narrative description of the industrial processes performed at the facility (attach additional sheets if necessary):
scrap metal recycling for resale

PART B: GENERAL INFORMATION FOR RESPONSIBLE INDIVIDUAL		
12. Responsible Individual name: Jeff Trockman		
13. Responsible Individual title: Vice President		
14. Responsible Individual mailing address: P O Box 782		
City: Evansville	State: IN	ZIP: 47704
15. Responsible Individual telephone number: 812-425-5271		
16. Responsible Individual facsimile number (if applicable): 812-425-5277		
17. Responsible Individual e-mail address (if applicable): jeff@trockman.com		

PART C: (CORPORATIONS ONLY) GENERAL INFORMATION FOR REGISTERED AGENT		
18. Registered Agent name:		
19. Registered Agent title:		
20. Registered Agent mailing address:		
City:	State:	ZIP:
21. Registered Agent telephone number:		
22. Registered Agent facsimile number (if applicable):		
23. Registered Agent e-mail address (if applicable):		

PART D: GENERAL INFORMATION FOR STORM WATER DISCHARGE(S) FROM FACILITY	
24. Identification of the number and location of each outfall where storm water exposed to industrial activity discharges to a water of the state, including a narrative description of the industrial activity associated with the drainage area of each identified outfall: Outfall 001 is located at the southeast corner of the facility. The drainage area for this outfall includes various scrap metal recycling activities, including storage and processing.	
25. Identification of any outfalls, listed above in Item 24, that are substantially similar (Include reason as to why outfalls are deemed similar): N/A	
26. Identification of the outfall(s) to be monitored as representative of all such discharges: N/A	
27. Identification of receiving water(s) for the storm water discharge outfall(s) identified above in Item 24: unnamed tributary to Eagle Creek	
28. Does the facility discharge storm water into a municipal separate storm sewer system (MS4)? (If yes, provide contact person information): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Contact person for the MS4 entity: Phone number for the MS4 entity contact person:	

PART E: MATERIALS TO BE SUBMITTED WITH THIS NOI LETTER

► In addition to the information in Parts A, B, C, and D facility representative must provide the following (check when completed):

- 1) ☒ Proof of publication in a newspaper of largest circulation in the affected area.

PART F: FEES, CERTIFICATION, AND SIGNATURE

- Upon submission of this NOI letter, the responsible individual or registered agent shall pay a fee in the amount of fifty dollars (\$50). Make all checks and money orders payable to "IDEM."
 - Pursuant to 327 IAC 15, the fee is NOT:
 - Transferable from one (1) facility location to another;
 - Transferable from one (1) person to another;
 - Transferable to any other type of permit issued by IDEM; or
 - Refundable.
- Unless requested by the responsible individual or registered agent and approved by IDEM within three (3) days of submittal to IDEM or prior to the NOI letter processing by IDEM, whichever is earlier.

- There is also an annual fee of one hundred dollars (\$100), for which you will be billed.

- Pursuant to 327 IAC 15, the NOI letter is NOT:
 - Transferable from one (1) facility location to another (a new NOI letter is required for each facility location);
 - Transferable from one (1) facility name to another at the same location (a new NOI letter is required for a name change to the facility location).
- Pursuant to 327 IAC 15, the annual fee requirement is terminated:
 - When a written request for the "no exposure" exclusion from the facility is approved by IDEM;
- When a period of five (5) years passes, from the date of the NOI letter submittal, (Within ninety (90) days from the five (5) year permit term ending, a new, reapplication NOI letter must be submitted.).
- Allow a minimum of four (4) weeks for processing the NOI letter information and receipt of your Notice of Sufficiency.
- Make sure you have completed all appropriate sections of this NOI letter and have included all required addenda. Sign and date the NOI letter and return it to the address shown on page one (1) of this NOI letter. Incomplete or incorrect NOI letters will result in a delay in processing and issuance of your Notice of Sufficiency.
- Unless not applicable, all information requested in this NOI letter is MANDATORY for the administration and processing of your permit pursuant to 327 IAC 15-8. All data received will be regarded as a public record.

► The persons listed in "Part B: Responsible Individual" must sign the following certification statement:

"By signing this NOI letter, I hereby certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Type or print Responsible Individual Name: Jeff Trockman

Signature of Responsible Individual: _____

Date: _____
(mm/dd/year)

February 7, 2002

Mr. Jeff Trockman
J. Trockman & Sons, Inc.
P.O. Box 682
Evansville, Indiana 47704

Dear Mr. Trockman:

Re: Exempt Operation Status,
163-15369-00123

The application from J. Trockman & Sons, Inc. received on December 31, 2001, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-1.1-3, it has been determined that the scrap automobile metal body processing plant, located at 1017 Bayse Street, Evansville, Indiana 47714 has been re-classified from a FESOP source into an Exempted source. The source consists of the following emission units:

- (a) Replacement of the two (2) 750 Horsepower natural gas-fired reciprocating internal combustion (IC) engines into electric engines. These IC engines are used to power the shredder.
- (b) Shredding operation, capable of shredding a maximum of 24 tons per hour;
- (c) Two (2) diesel storage tanks, identified as tank no.1 and tank no. 6, each with a capacity of 250 gallons;
- (d) Five (5) diesel storage tanks, identified as tank no. 2, tank no. 3 and tank no. 4, tank no. 9 and tank no.10, each with a capacity of 1,000 gallons;
- (e) One (1) gasoline storage tank, identified as tank no. 5 with a capacity of 500 gallons;
- (f) One (1) used oil storage tank, identified as tank no.7 with a capacity of 500 gallons;
- (g) One (1) diesel storage tank, identified as tank no. 8 with a capacity of 500 gallons;
- (h) Brazing, torch cutting, soldering and welding operation.

The following conditions shall be applicable:

- (1) Pursuant to 326 IAC 5-1-2 (Opacity Limitations) except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following:
 - (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of 15 minutes (60 readings) in a 6-hour period as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.

- (2) Pursuant to 326 IAC 6-3-2 (Process Operations), the PM emissions from the Shredding and Welding operations shall be limited using the following equation:

Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

- (3) Pursuant to 326 IAC 8-9-1 (Volatile Organic Liquid Storage Vessels), the ten (10) gasoline product storage tanks with capacities less than thirty-nine thousand (39,000) are subject to the following reporting and record keeping provisions of this rule:
- (a) The owner or operator of the ten (10) storage vessels shall keep all records required by this section for three (3) years unless specified otherwise. Records required by subsection (b) below shall be maintained for the life of the vessel.
- (b) The owner or operator of the ten (10) storage vessels shall maintain a record and submit to IDEM, OAQ a report containing the following information of each vessel:
- (1) The vessel identification number;
 - (2) The vessel dimensions; and
 - (3) The vessel capacity.

The source is being re-classified from a FESOP source into an Exemption source.

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Sincerely,

Original signed by Paul Dubenetzky
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

APD

cc: File - Vanderburgh
Vanderburgh County Health Department
Air Compliance - Scot Anslinger
Southwest Regional Office
Permit Tracking - Janet Mobley
Technical Support and Modeling - Michele Boner
Compliance Data Section - Karen Nowak
Local Agency Evansville Environmental Protection Agency

**Indiana Department of Environmental Management
Office of Air Quality and
Evansville Environmental Protection Agency**

Technical Support Document (TSD) for a Exemption

Source Background and Description

Source Name: J. Trockman and Sons, Inc.
Source Location: 1017 Bayse Street, Evansville, Indiana 47714
County: Vanderburgh
SIC Code: 5093
Exemption No.: 163-15369-00123
Permit Reviewer: Aida De Guzman

The Office of Air Quality (OAQ) has reviewed an application from J Trockman and Sons, Inc. relating to the re-permitting of the scrap automobile metal body processing plant, due to the re-classification of the source from a FESOP source into an Exempted source. The emission units are the following:

- (a) Replacement of the two (2) 750 Horsepower natural gas-fired reciprocating internal combustion (IC) engines into electric engines. These IC engines are used to power the shredder.
- (b) Shredding operation, capable of shredding a maximum of 24 tons per hour;
- (c) Two (2) diesel storage tanks, identified as tank no.1 and tank no. 6, each with a capacity of 250 gallons;
- (d) Five (5) diesel storage tanks, identified as tank no. 2, tank no. 3 and tank no. 4, tank no. 9 and tank no.10, each with a capacity of 1,000 gallons;
- (e) One (1) gasoline storage tank, identified as tank no. 5 with a capacity of 500 gallons;
- (f) One (1) used oil storage tank, identified as tank no.7 with a capacity of 500 gallons;
- (g) One (1) diesel storage tank, identified as tank no. 8 with a capacity of 500 gallons;
- (h) Brazing, torch cutting, soldering and welding operation.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) FESOP F163-6855-00123, issued on March 10, 1997; and
- (b) First Minor Revision 163-9125, issued on May 8, 1998

Recommendation

The staff recommends to the Commissioner that the re-permitting be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on December 31, 2001 with additional information received on January 9, 2002.

Emission Calculations

- (a) Electric Internal Combustion Engines:
These engines are used to power the shredder. There are no emissions from electric.
- (b) Shredding Operation:
There are no emission factors available in the AP-42 for automobile metal body shredding operation. The emission factor used in the calculations came from the "Industry Scrap Recycling Institute (ISRI)".

Pollutant	Shredding Operation		Emissions (tons/yr)
	Maximum Throughput (ton/hr)	Emission Factor (lb/ton)	
Particulate Matter (PM/PM10)	24	0.00257	0.27
VOC	24	0.00136	0.143
Lead	24	8.73×10^{-5}	0.009

- (c) Ten (10) Storage Tanks (Total capacity of 7,000 gallons):
The total VOC emission from the tanks is too insignificant that the Tanks Program 4.0 spreadsheet cannot quantify it.
- (d) Brazing, Torch Cutting, Soldering, and Welding Operation:

Type of Wire Used	Maximum amount of Wire Used (lb/yr)
E6011	8,970
E6012	3,820
E7018	3,310

Note: The wire used is based on 8760 hours/yr.

TABLE 1

Pollutant	Emission Factor (lb/10 ³ lb)	Emissions (tons/yr)	Emission Factor (lb/10 ³ lb)	Emissions (tons/yr)	Emission Factor (lb/10 ³ lb)	Emissions (tons/yr)	Total Emissions (tons/yr)
	E6011		E6012		E7018		
Particulate Matter (PM/PM10)	38.4	0.17	8.0	0.015	18.4	0.03	0.22
Cobalt	0.01	4.48 x 10 ⁻⁵	-	0.0	0.01	4.48 x 10 ⁻⁵	8.9 x 10 ⁻⁵
Manganese	9.98	0.045	-		10.3	0.017	0.062
Nickel	0.05	2.2 x 10 ⁻⁴	-		0.02	3.3 x 10 ⁻⁵	2.5 x 10 ⁻⁴

Note: Above welding emission factors were taken from the AP-42 Table 12.19-2.

Methodology:

Emissions = throughput, lb/yr * lb/1000 lb * ton/2000 lb

TABLE 2

TORCH CUTTING		
Pollutant	Emission Factor (lb of PM/hr cutting time)	Emissions (tons/yr)
Particulate Matter (PM/PM10)	0.06	0.26

Note: Above torch cutting emission factor was taken from the "Industry Scrap Recycling Institute (ISRI)", since there are no available emission factor in the AP-42.

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency."

Pollutant	Potential To Emit (tons/year)
PM	0.75
PM-10	0.75
SO ₂	0.0
VOC	0.143
CO	0.0
NO _x	0.0

HAP's	Potential To Emit (tons/year)
Cobalt	8.9 x 10 ⁻⁵
Manganese	0.062
Nickel	2.5 x 10 ⁻⁴
Lead	0.009
TOTAL	0.071

Justification for Approval Level

- (a) Pursuant to 326 IAC 2-1.1-3, the source will be issued an Exemption, since the potential to emit (as defined in 326 IAC 2-7-1(29)) of Particulate Matter (PM) or Particulate Matter with an aerodynamic diameter less than ten (10) micrometers (PM10), and the potential to emit of Lead is less than two-tenths (0.2) tons per year.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2000 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	1.0
PM-10	1.0
SO ₂	0.0
VOC	1.0
CO	17.0
NO _x	3.0
HAP (specify)	0.0

The actual emissions were due to the combustion of natural gas from the two (2) internal combustion engines (IC), which power the shredder. These natural gas engines are now being replaced with electric engines.

Source Status/Limited Potential to Emit

Existing re-permitted source PSD Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity).

Process/facility	Limited Potential to Emit (tons/year)							
	PM	PM-10	SO ₂	VOC	CO	NO _x	Single HAP	Combined HAPs
Shredding	0.27	0.27	0.0	0.143	0.0	0.0	0.009	0.009
Welding	0.22	0.22	0.0	0.0	0.0	0.0	0.062	0.0623
Torch Cutting	0.26	0.26	0.0	0.0	0.0	0.0	0.0	0.0
Total Emissions	0.75	0.75	0.0	0.143	0.0	0.0	0.071	0.071

- (a) This existing re-permitted source is not a major stationary source because no attainment pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories. Therefore, pursuant to 326 IAC 2-2, and 40 CFR 52.21, the PSD requirements do not apply.

County Attainment Status

The source is located in Vanderburgh County.

Pollutant	Status
PM-10	attainment
SO ₂	attainment
Ozone	maintenance
CO	attainment
Lead	not determined

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Vanderburgh County has been designated as maintenance for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.
- (b) Vanderburgh County has been classified as attainment or unclassifiable for all the other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source was issued a FESOP F163-6855-00123 on May 10, 1997. However, the source had replaced their main emission units, two natural gas-fired internal combustion engines into electric engines. Due to this change the source is no longer subject to the Part 70 Permit Program requirements because the new potential to emit (PTE) of:

- (a) each criteria pollutant is less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (c) any combination of HAPs is less than 25 tons/year.

The source is being re-classified from a FESOP source into an Exemption source.

Federal Rule Applicability

- (a) New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60)
 - (1) 40 CFR Part 60.110b, Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels). This rule applies to each storage vessel with a capacity greater than or equal to 40 cubic meters (m³)(10,567 gallons) that is used to store volatile organic liquids (VOL's) for which construction, reconstruction, or modification is commenced after July 23, 1984.

The ten (10) fuel oil storage tanks are not subject to this NSPS because the capacity of each tank is less than 10,567 gallons.

- (b) There are no other New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

- (a) 326 IAC 5-1 (Visible Emissions Limitations)
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:
 - (1) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6)

minute averaging period as determined in 326 IAC 5-1-4.

- (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

State Rule Applicability - Individual Facilities

- (a) 326 IAC 8-1-6 (General Reduction Requirements)
The Shredding Operation is not subject to 326 IAC 8-1-6, because its VOC potential emission is less than 25 tons per year.
- (b) 326 IAC 8-4-3 (Petroleum Liquid Storage Facilities)
This rule applies to all petroleum liquid storage vessels with capacities greater than one hundred fifty thousand (150,000) liters (thirty-nine thousand (39,000) gallons) containing VOC whose true vapor pressure is greater than 10.5 kPa (1.52 psi).

The ten (10) petroleum storage tanks are not subject to this rule, because not one tank has a capacity of 39,000 gallons or more.
- (c) 326 IAC 8-9-1 (Volatile Organic Liquid Storage Vessels)
This rule applies to stationary VOL vessels with a capacity of less than thirty-nine thousand (39,000) are subject to the following reporting and record keeping provisions of this rule:
- (1) The owner or operator of the ten (10) storage vessels shall keep all records required by this section for three (3) years unless specified otherwise. Records required by subsection (2) shall be maintained for the life of the vessel.
- (2) The owner or operator of the ten (10) storage vessels shall maintain a record and submit to IDEM, OAQ a report containing the following information of each vessel:
- (i) The vessel identification number;
 - (ii) The vessel dimensions; and
 - (iii) The vessel capacity.
- (d) 326 IAC 6-3-2 (Process Operations)
This rule mandates a PM emission limit from the Shredding and Welding operations using the following equation:

Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

Conclusion

The re-permitting of this scrap automobile metal body processing plant shall be subject to the conditions of the attached Exemption 163-15369-00123.

